Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
Mosbacher Production Co. c/o Allen, Bludworth & Crouch

3. ADDRESS OF OPERATOR
P. O. Box 976 Casper, WY. 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
1980' FWL 1980' FSL NE SW Sec. 24

At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 6.5 miles north of Bluff, Utah

5. LEASE DESIGNATION AND SERIAL NO.
Utah 21253

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
---

7. UNIT AGREEMENT NAME
---

8. FARM OR LEASE NAME
Federal

9. WELL NO.
1-24

10. FIELD AND POOL, OR WILDCAT
Unnamed

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 24, T 39 S, R 21 E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1980'

16. NO. OF ACRES IN LEASE
560

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
N/A

19. PROPOSED DEPTH
5780' KB

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4703' GR

22. APPROX. DATE WORK WILL START*
JUN 24 1981

RECEIVED
JUN 24 1981
U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY
12-1/4"	9-5/8"	36#/Ft. K-55	400'	Sufficient to circulate to surface
8-3/4"	5-1/2"	15.5#/Ft. K-55	5780'	250 SX*

*Cement volume will be determined by hole size and caliper. Calculate after logging.

Drill 12-1/4" hole to 400' and run approximately 400' of 9-5/8" casing and cement to surface.

Drill 8-3/4" hole to 5780' and evaluate all hydrocarbon shows.

If the well is commercial, new 5-1/2", 15.5# casing will be run and cemented.

If the well is dry, a dry-hole marker will be set and the surface will be restored as outlined in the NTL-6. Cement plugs will be set according to U.S.G.S. instructions.

TEN POINT PLAN IS ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive one. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED B. W. Allen TITLE Petroleum Engineer DATE June 22, 1981

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Original Signed - John L. Price TITLE District Supervisor DATE 7/6/81

CONDITIONS OF APPROVAL, IF ANY:

STIPULATIONS ATTACHED

APPROVED FOR A PERIOD NOT TO EXCEED 1 YEAR.

~~OPERATOR'S COPY~~

"APPROVAL TO FLARE GRANTED WHILE DRILLING AND TESTING."

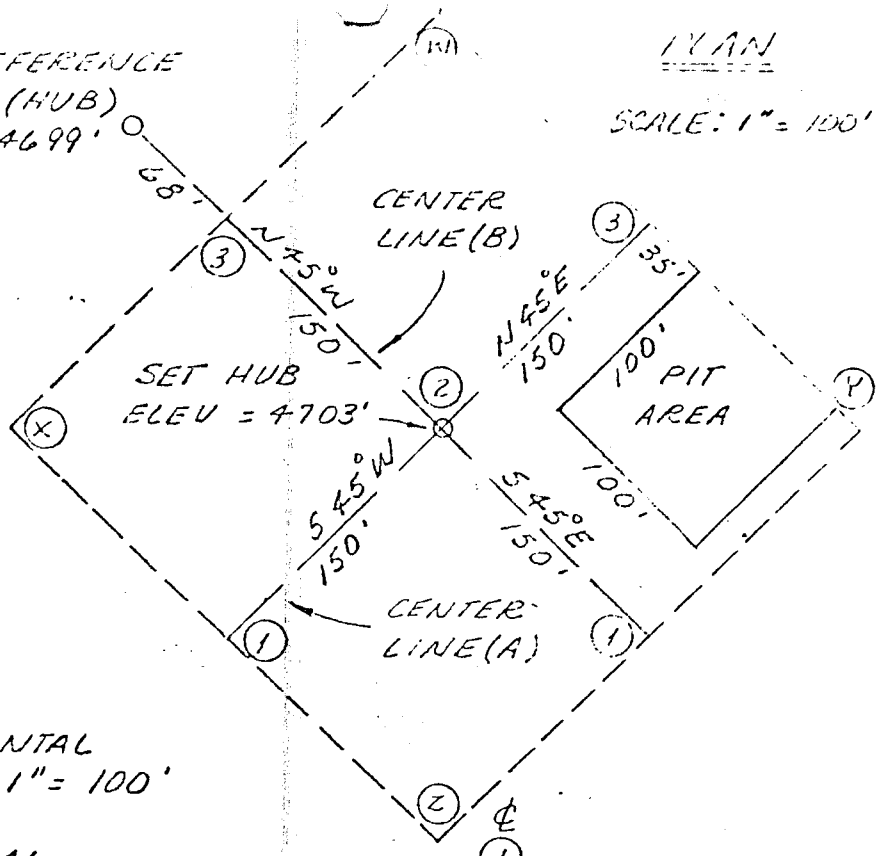
*See Instructions On Reverse Side

SHEET 2 OF 2

PROPOSED LOCATION
FEDERAL Nº 24-1

NORTH 1980' &
EAST 1980' FROM S.W.
CORNER SECTION 24,
T39S, R21E, S.L.B. & M.,
SAN JUAN COUNTY, UTAH

SET REFERENCE
POINT (HUB)
ELEV = 4699'



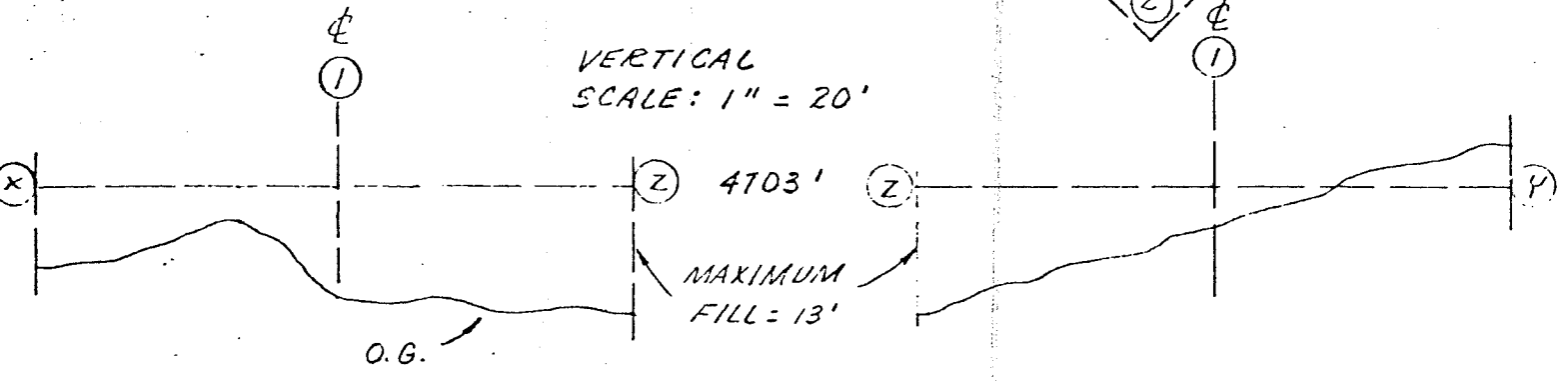
IVAN

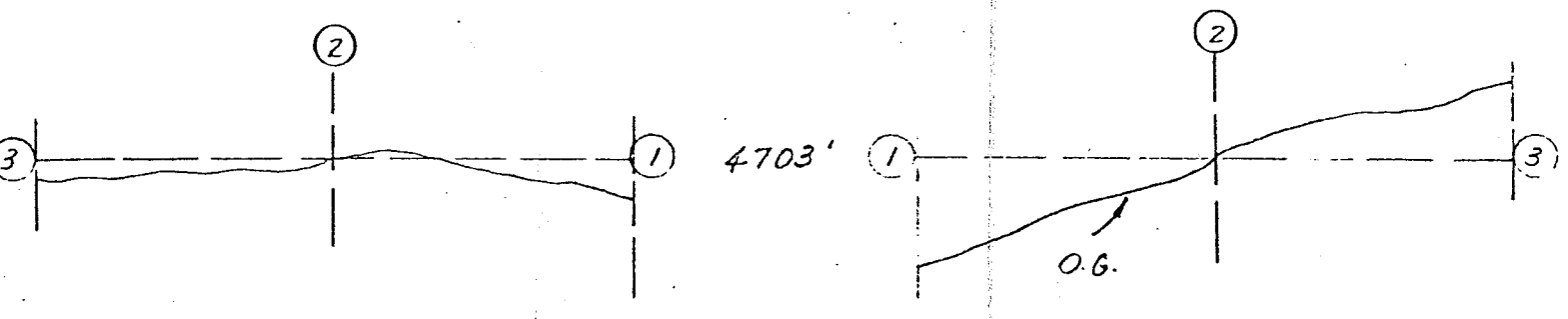
SCALE: 1" = 100'

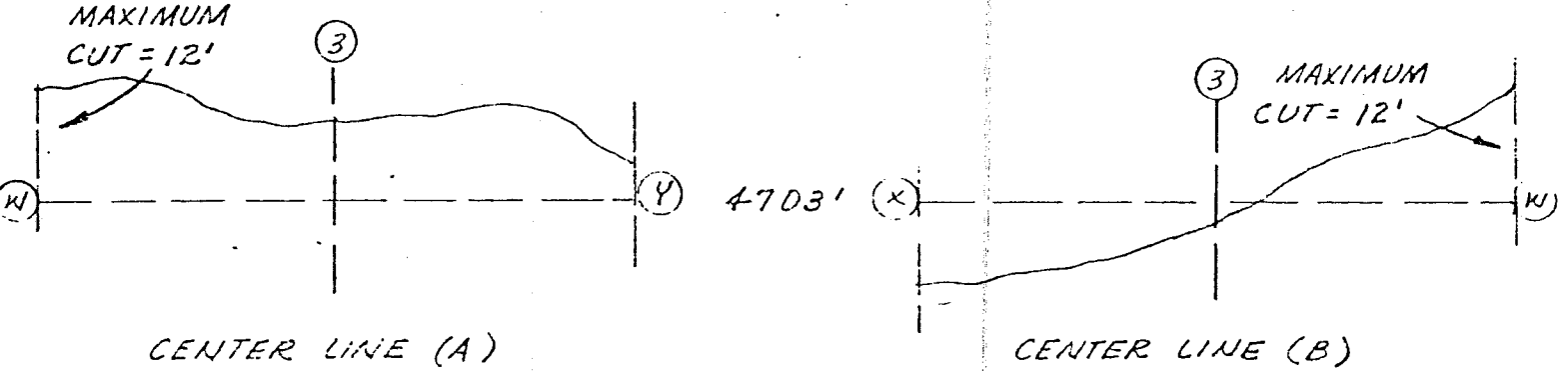
CROSS-SECTIONS

HORIZONTAL
SCALE: 1" = 100'

VERTICAL
SCALE: 1" = 20'







CENTER LINE (A)

CENTER LINE (B)

POSED LOCATION

FEDERAL Nº 24-1

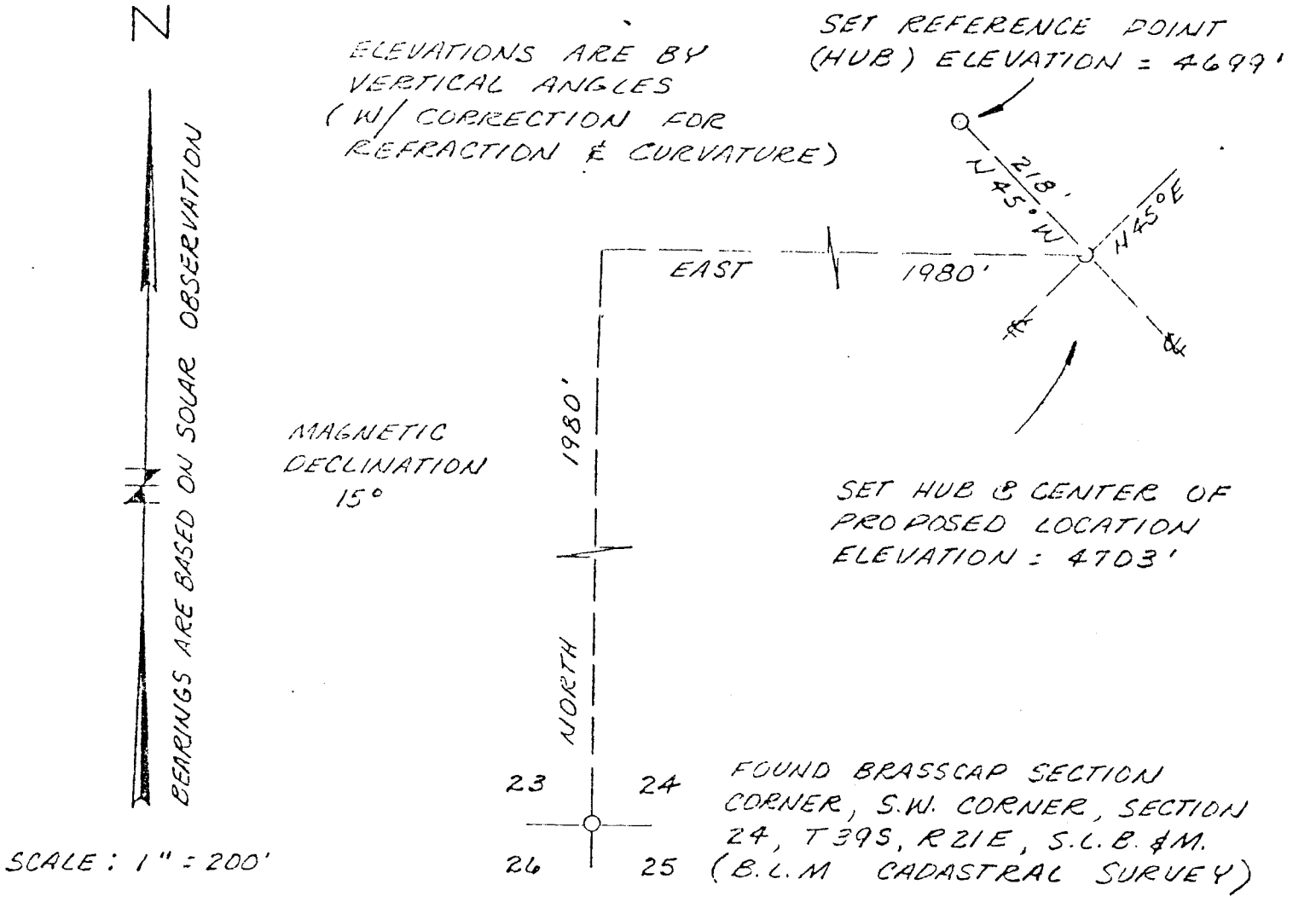
IN SECTION 24, T39S, R21E,

S.L.B. & M., SAN JUAN COUNTY, UTAH

SHEET 1 OF 2

ELEVATIONS ARE BASED ON S.W. CORNER SECTION 26, T39S, R21E, S.L.B.&M.

(4691 - FROM U.S.G.S. TOPO, BLUFF QUAD - 15 MINUTE)



SCALE: 1" = 200'

TRANSIT, CHAIN & E.D.M. SURVEY

FOR: MOSBACHER PRODUCTION CO.

JUNE, 1981

REGISTERED LAND SURVEYOR
No. 4946
Richard Lee Johnston
STATE OF UTAH

Richard Lee Johnston

RICHARD L. JOHNSTON

UTAH R.L.S Nº 4946

DRILLING PROGNOSIS

Mosbacher Production Co.
NE SW Section 24, T 39 S, R 21 E
San Juan County, Utah
Lease No. Utah 21253

1. SURFACE FORMATION

Entrada

2. GEOLOGICAL MARKERS - Estimated

Cutler	2600'
Hermosa	4700'
Ismay	5550'
Desert Creek	5780'

3. WATER, OIL AND GAS ZONES

Lower Ismay	5620'(Oil)
Desert Creek	5780'(Oil)

4. PROPOSED CASING SYSTEM (All New)

Depth	Size	Grade	Weight	Joint	Thread
0 - 400'	9-5/8"	K-55	36#/Ft.	ST&C	8Rd.
0 - 5780'	5-1/2"	K-55	15.5#/Ft.	LT&C	8Rd

Design Criteria: Tension 1.8, Collapse 1.125, Burst 1.0

5. PRESSURE CONTROL EQUIPMENT

Type:	b - 900 Series - Double Gate
Pressure Rating:	3000 psi
Testing Procedure:	Equipment will be pressure tested prior to drilling out from under surface casing and operational checks will be made each trip thereafter and recorded.

6. MUD PROGRAM (Visual Monitoring)

Native mud will be used from surface to 300'. Water & Dril-Sol - Keep weight as low as possible - mud up at 2500' with nondispursed low solid Gel based drilling fluid.

Viscosity - 35-40 Weight - 8.8-9.0 Fluid loss - 10cc or less

A sufficient inventory will be stockpiled on location to maintain mud characteristics.

7. AUXILLARY EQUIPMENT

1) A kelly cock will be kept in the string at all times.
2) Periodic checks will be made each tour of the mud system.
3) A stabbing valve will be kept on the derrick floor to be stabbed into the drill pipe whenever the kelly is not in the string.
4) No float will be used.

8. EVALUATION PROGRAM

The well will be drilled to a total depth of 5780' through the Ismay into the Desert Creek. An IES-SP log will be run from the bottom of the surface casing to total depth. A Gamma Ray-Density-Neutron log will be run across the Desert Creek and Ismay formations. The logging program may change at the discretion of the well site geologist.

Drill Stem Test: As warranted by shows or loss.

Cores: None anticipated.

Stimulation

Breakdown will be with an acid treatment est. at 500 - 2000 gallons. Fracture treatments, if required, will be gelled water or oil-water emulsion. Volume will be determined following reservoir analysis. Storage tanks and stimulation equipment will be positioned in accordance with safe stimulation regulations.

A distance of 125 feet or more from frac tanks to bore hole and the same from frac trucks to the bore hole and tanks.

The U.S.G.S. will be notified prior to using any flammable liquid.

9. ABNORMAL CONDITIONS

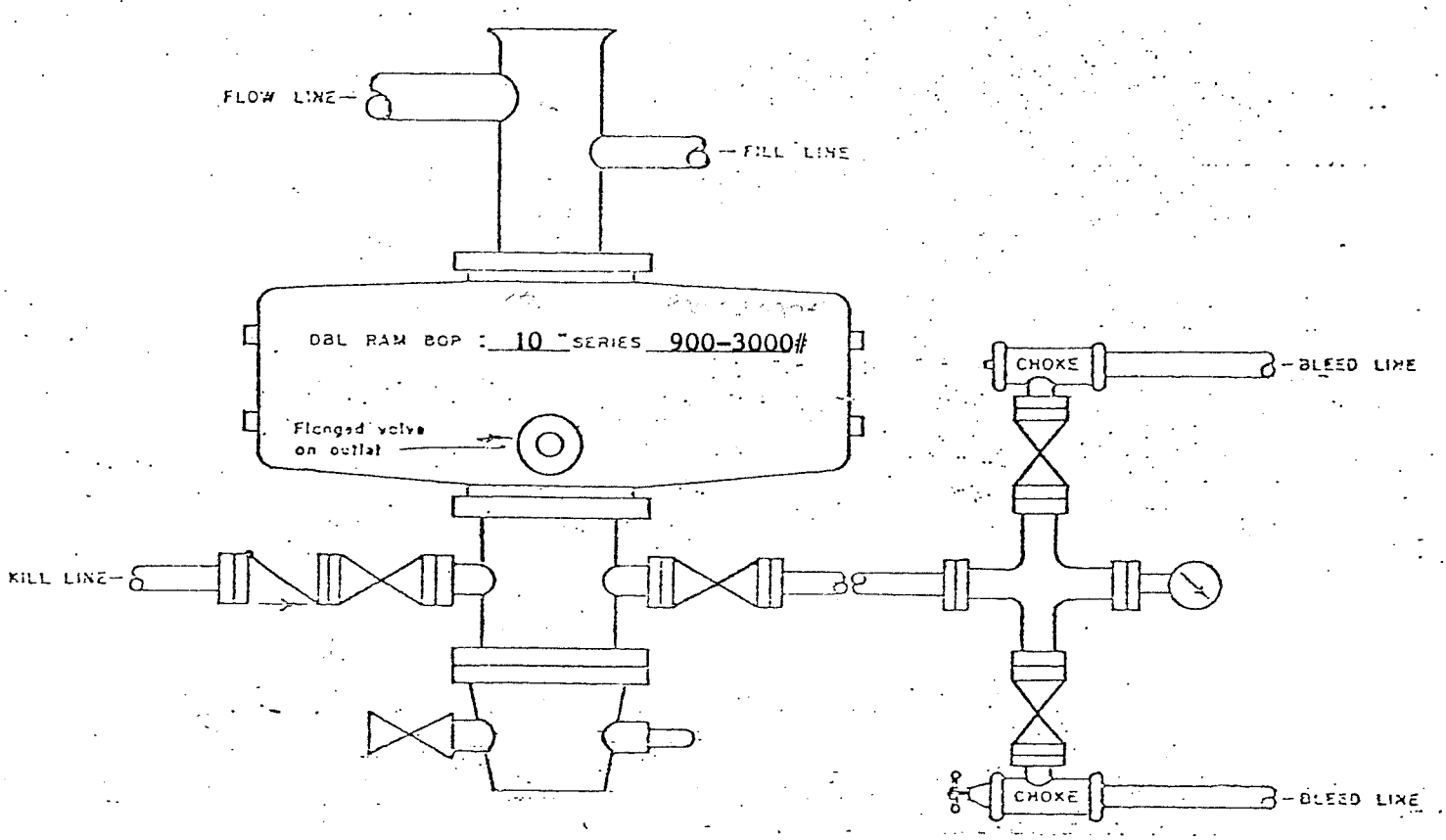
It is not anticipated that abnormal temperatures, pressures or toxic gas will be encountered.

10. DRILLING ACTIVITY

Drilling will commence as soon as possible after approval depending on rig availability.

MOSBACHER PRODUCTION CO.
NE SW Section 24, T39N, R21E
San Juan County, Utah
Lease No. 21253

Typical Minimun BOP Specs(Schematic drawing)



Notes and Auxiliary Equipment

1. All lines, valves and fittings to be minimum 2"-3000# WP
2. All bolts to be installed and tight.
3. All crew members to be trained in and familiar with BOP equipment, accumulators, and procedures.
4. Hole to be kept full at all times.
5. (a) After nippling up, preventers will pressure tested at 1000 psi for 15 minutes before drilling out.
   (b) BOP will be inspected and operated at least daily to insure good working order.
   (c) All pressure and operating tests will be recorded on daily drilling report.
6. An upper kelly cock will be used at all times.
7. A drill pipe float will be available at all times for use when penetrating formations with anticipated abnormal pressures.
8. Mud system monitoring method: Visual
9. A 3000 psi WP full opening valve, properly subbed w/DP pin, will be available on the floor at all times.

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: Utah 21253

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ———

7. UNIT AGREEMENT NAME: ———

TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME: Federal

NAME OF OPERATOR: Mosbacher Production Co. c/o Allen, Bludworth & Crouch

9. WELL NO.: 1-24

ADDRESS OF OPERATOR: P. O. Box 976 Casper, WY. 82602

10. FIELD AND POOL, OR WILDCAT: ~~Undesignated~~ Wildcat

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FWL 1980' FSL NE SW Sec. 24

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

At proposed prod. zone: Same

Sec. 24, T 39 S, R 21 E

DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 6.5 miles north of Bluff, Utah

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1980'	560	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
N/A	5780' KB	Rotary

ELEVATIONS (Show whether DF, RT, GR, etc.): 4703' GR

22. APPROX. DATE WORK WILL START*: JUN 24 1981

RECEIVED
U. S. GEOLOGICAL SURVEY
DENVER, COLO.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#/Ft. K-55	400'	Sufficient to circulate to surface
8-3/4"	5-1/2"	15.5#/Ft. K-55	5780'	250 SX*.

*Cement volume will be determined by hole size and caliper. Calculate after logging.

Drill 12-1/4" hole to 400' and run approximately 400' of 9-5/8" casing and cement to surface.

Drill 8-3/4" hole to 5780' and evaluate all hydrocarbon shows.

If the well is commercial, new 5-1/2", 15.5# casing will be run and cemented.

If the well is dry, a dry-hole marker will be set and the surface will be restored as outlined in the NTL-6. Cement plugs will be set according to U.S.G.S. instructions.

TEN POINT PLAN IS ATTACHED

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10-2-81
BY: M. J. Minder

Must have st of Ut approval prior to Plugging

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED B. W. Allen TITLE Petroleum Engineer DATE June 22, 1981

(This space for Federal or State office use)

PERMIT NO. ——— APPROVAL DATE ———

APPROVED BY John L. Price TITLE District Supervisor DATE 7/6/81

CONDITIONS OF APPROVAL, IF ANY:

STIPULATIONS ATTACHED

APPROVED FOR A PERIOD NOT TO EXCEED 1 YEAR.

OPERATOR'S COPY

"APPROVAL TO FLARE GRANTED WHILE DRILLING AND TESTING."

*See Instructions On Reverse Side

SHEET 1 OF 2

PROPOSED LOCATION

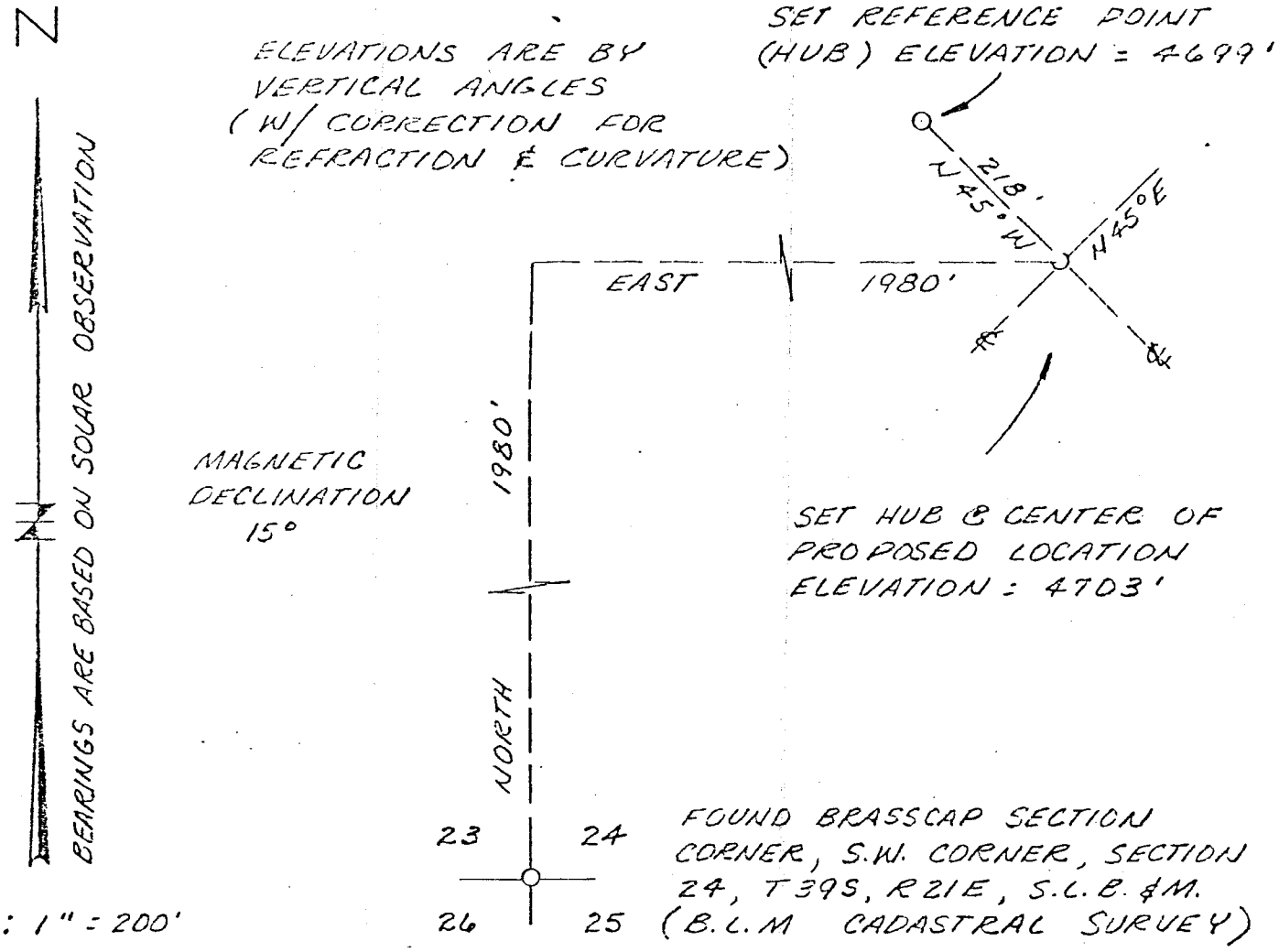
FEDERAL Nº 24-1

IN SECTION 24, T39S, R21E,

S.L.B. & M., SAN JUAN COUNTY, UTAH

ELEVATIONS ARE BASED ON S.W. CORNER SECTION 26, T39S, R21E, S.L.B.&M.

(4691 - FROM U.S.G.S. TOPO, BLUFF QUAD - 15 MINUTE)



SCALE: 1" = 200'

REGISTERED LAND SURVEYOR
No. 4946
Richard Lee Johnston
STATE OF UTAH

Richard Lee Johnston

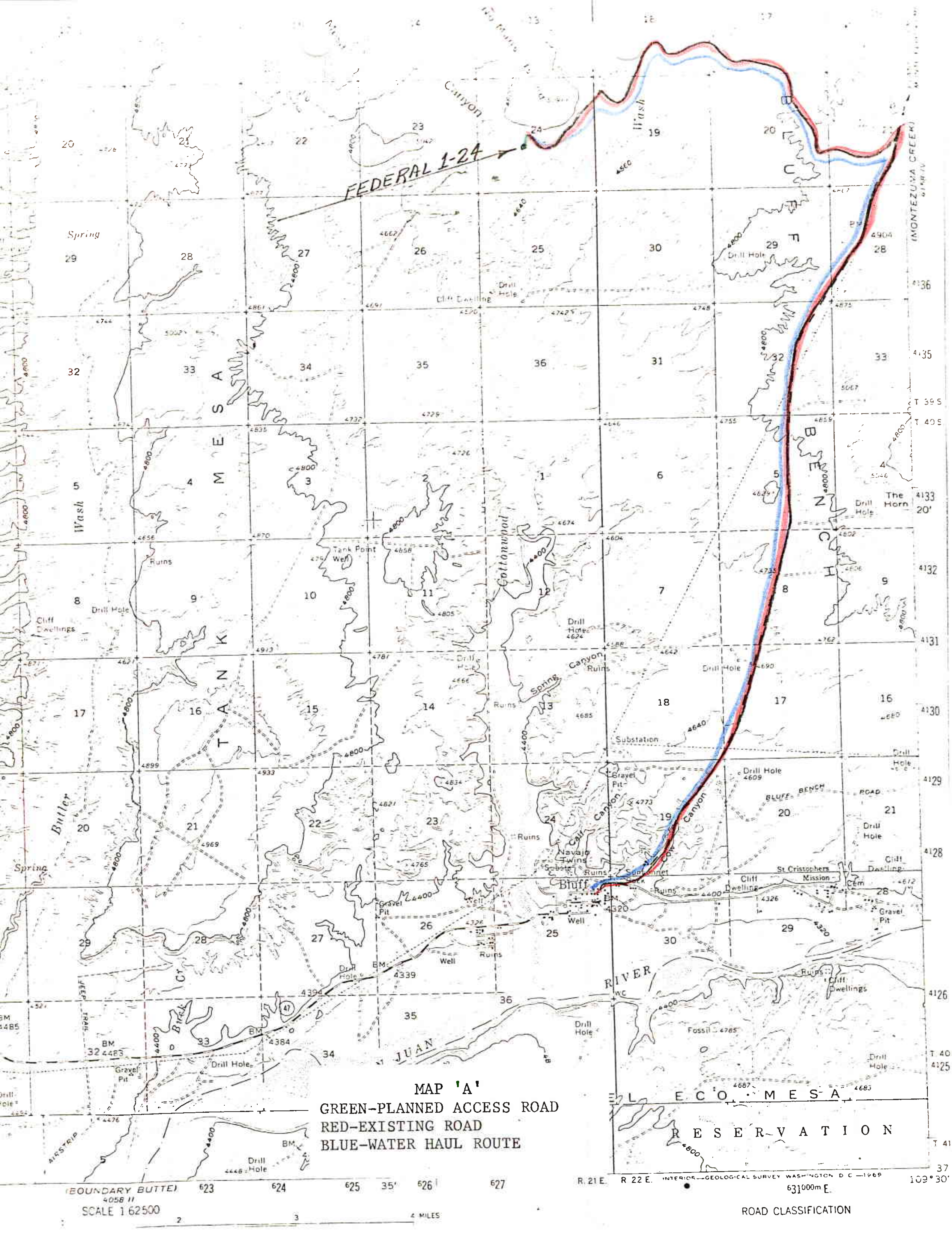
TRANSIT, CHAIN & E.D.M. SURVEY

FOR: MOSBACHER PRODUCTION CO.

JUNE, 1981

RICHARD L. JOHNSTON

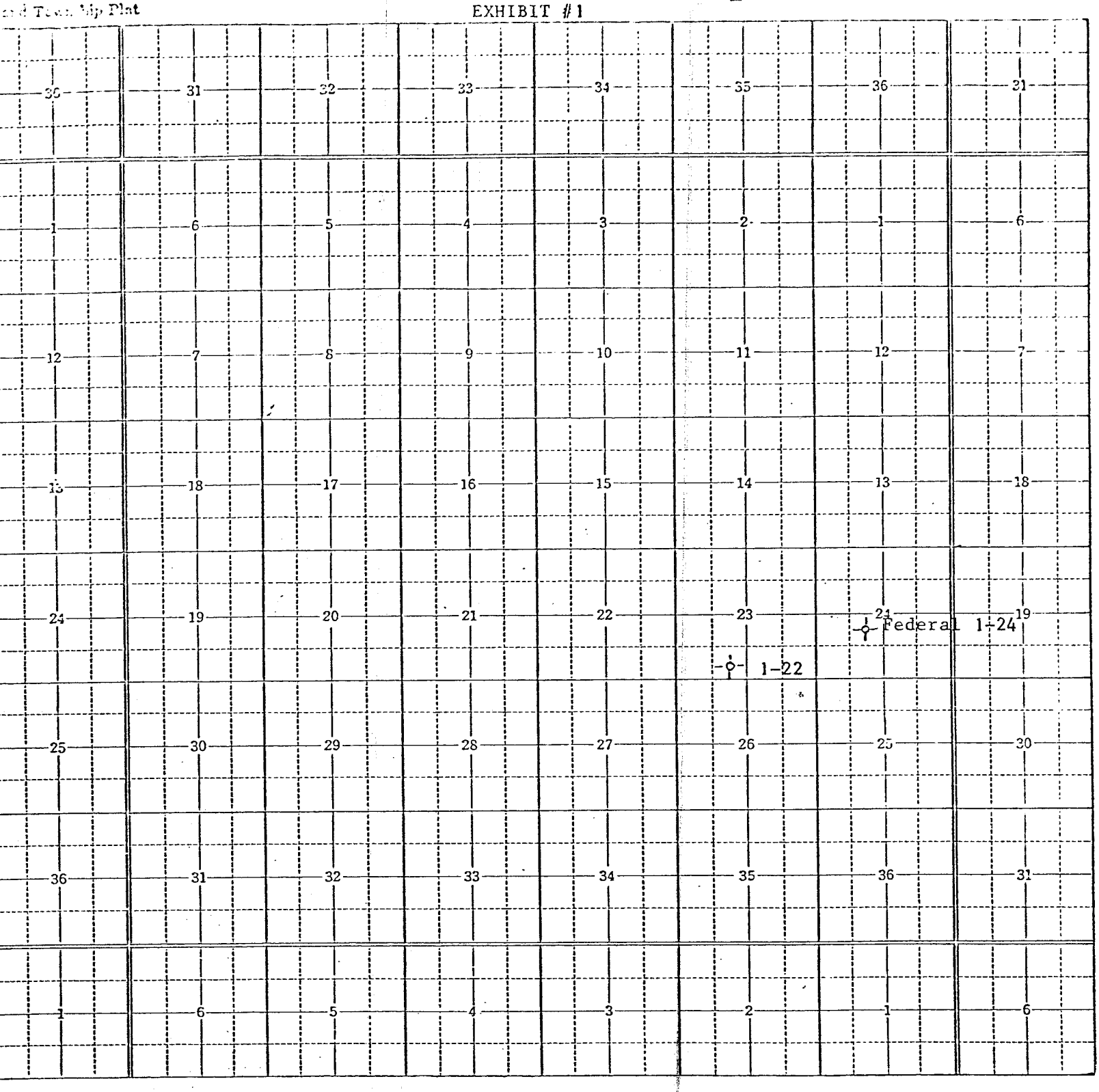
UTAH R.L.S Nº 4946


FEDERAL 1-24
MAP 'A'
GREEN-PLANNED ACCESS ROAD
RED-EXISTING ROAD
BLUE-WATER HAUL ROUTE
TANK MESA
BLUFF BENCH
Bluff
SAN JUAN RIVER
ECO MESA
RESERVATION
(MONTEZUMA CREEK)
(BOUNDARY BUTTE)
SCALE 1:62500
ROAD CLASSIFICATION
INTERIOR—GEOLOGICAL SURVEY WASHINGTON D C—1969
R. 21 E.
R. 22 E.
T 39 S
T 40 S
109°30'
37°20'

Township T. 39 S. Range R. 21 E. County San Juan State Utah

Land Township Plat

EXHIBIT #1



KINTZEL BLUE PRINT CO., P. O. Box 741, Casper, Wyoming

Sec. 23, T 39 S, R 21E R. C. Anderson 1-22 D&A

Sec. 24, T 39 S, R 21 E, Mosbacher Fed. 1-24 (Proposed)

EXHIBIT #1

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other Wildcat
2. NAME OF OPERATOR: Mosbacher Production Company
3. ADDRESS OF OPERATOR: c/o Allen, Bludworth & Crouch P.O. Box 976 Casper, Wy
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
   AT SURFACE: 1980 FWL 1980' FSL
   AT TOP PROD. INTERVAL:
   AT TOTAL DEPTH:

LEASE: Utah 21253
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ------
7. UNIT AGREEMENT NAME: ------
8. FARM OR LEASE NAME: Federal
9. WELL NO.: 1-24
10. FIELD OR WILDCAT NAME: Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 24 - T39S-R21E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah
14. API NO.:
15. ELEVATIONS (SHOW DF, KDB, AND WD): 4703 GR.

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other) Addition to A.P.D.			

RECEIVED
JUL 16 1981
DIVISION OF OIL, GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator proposes to change casing program to one of 3 alternate proposals listed to protect water sands above 1600 feet. Proposal selected will depend on data revealed by drilling and/or logging.

(1) Set 200' 13-3/8" 48# casing and cement to surface. Set 9-5/8", 36# intermediate casing at 1600'. Use sufficient cement to ~~cover water sands~~ circulate to surface.

(2) Set 1600 feet of 9 5/8", 48# surface casing, cement to surface.

(3) Run cement stage collar in 5 1/2" production casing below 1600 feet. Cement casing with two stages. Second stage sufficiently large to ~~cover water sands~~ circulate to surface.

RECEIVED
JUN 29 1981
U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED B.W. Allen TITLE Petroleum Engineer DATE 6/25/81
B.W.Allen

(This space for Federal or State office use)

APPROVED BY Original Signed - John L. Price TITLE District Supervisor DATE 7/6/81
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

No Card file

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Mosbacher Production Co. Dick Lauters 678-3231

WELL NAME: Federal #1-24

SECTION SW 24 TOWNSHIP 39S RANGE 21E COUNTY San Juan

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 5890'

CASING PROGRAM:

13 3/8 @ 205' cement to surface
9 5/8 @ 1768 cement to surface
8 3/4 @ openhole TD

FORMATION TOPS:

Chinle-	behind casing
Cutler-	2602
Hermosa-	4670
Ismay-	5536-5630
Black Sh.-	5700
Desert Creek-	5735-5837

PLUGS SET AS FOLLOWS:

1) 5890-5470
2) 4770-4570
3) 2700-2500 displace with freshwater abandonment mud
4) 1820-1720
5) 50-surface.

DST:
1) 5616-96 (10' of mud)
2) 5786-5890 (366' Of mud)

No cores, no water encountered, no shows.

Place 9.4#, 55 vis fresh water gel based abandonment mud between plugs; clean, restore and regrade site, erect regulation dryhole marker.

DATE 8-17-81 SIGNED M.T.M. M. T. Minder

CC: Mosbacher Production Co.

** FILE NOTATIONS **

DATE: Sept. 29, 1981

OPERATOR: Mosbacher Production Co.

WELL NO: Federal #1-24

Location: Sec. 24 T. 39S R. 21E County: San Juan

File Prepared: ☑ Entered on N.I.D: ☑

Card Indexed: ☑ Completion Sheet: ☑

API Number 43-037-30720

CHECKED BY:

Petroleum Engineer: M. J. Minder 10-2-81

Director:

Administrative Aide: ok as per Rule C-3,

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐

Order No. ☐ O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation Fed ☑ Plotted on Map ☐

Approval Letter Written ☐

Hot Line ☐ P.I. ☐

October 2, 1981

Mosbacjoe Production Co.
P. O. Box 976
Casper, Wyoming 82602

RE: Well No. Federal #1-24,
Sec. 24, T. 39S, R. 21E,
Sam Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified with in 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30720.

Sincerely,

DIVISION OF OIL, GAS AND MINING

M. T. Minder

Michael T. Minder
Petroleum Engineer

MTM/db
CC: USGS

A GEOSCIENCE EXTENSION OF XCO

910 Sixteenth Street, #522, Denver, Colorado 80202 (303) 893-8138

CONFIDENTIAL

MOSBACHER

FEDERAL 1-24

SECTION 24 T39S R21E

SAN JUAN COUNTY, UTAH

GEOLOGIST: Chuck Hargrave
GX Consultants

TABLE OF CONTENTS

RESUME

OPERATOR:	Mosbacher
WELL NAME & NUMBER:	Federal 1-24
LOCATION:	Section 24 T39S R21E
COUNTY:	San Juan
STATE:	Utah
SPUD DATE:	July 21, 1981
COMPLETION DATE (TD):	August 15, 1981
ELEVATIONS:	4,703' GL 4,716' KB
TOTAL DEPTH:	5,878' LOGS 5,890' DRLR
CONTRACTOR:	Arapahoe
RIG:	#6
TYPE RIG:	--
PUMPS:	#1 15" x 5½" #2 12" x 5½"
GEOLOGIST:	Chuck Hargrave
ENGINEER:	--
TOOL PUSHER:	Roy Shepard
TYPE DRILLING MUD:	LSND
MUD COMPANY:	Mancos Mud Company
MUD ENGINEER:	Jeff Armstrong
HOLE SIZES:	12¼" Surface - 1,795' 8-3/4" 1,795' - 5,891'
CASING:	9-5/8" Surface To 1,795
MUD LOGGING BY:	Analex
TYPE UNIT:	Standard 2-Man
CORE INTERVALS:	None
DST DEPTHS:	#1 5,616' - 5,695' #2 5,792' - 5,890'

RESUME (CONTINUED)

DST COMPANY:	Halliburton
ELECTRIC LOGS BY:	Schlumberger
TYPE LOGS RUN:	FDC, CNL 1,712' - 5,878' I-SFL 3,848' - 5,878' CYBERLOOK 5,500' - 5,867'
LOGGING ENGINEER:	Julio Batista
BOTTOM FORMATION:	Akah (Shale)
WELL STATUS:	Plugged and Abandoned

SUMMARY AND CONCLUSIONS

The Mosbacher Production Company Federal 1-24 of San Juan County, Utah was spudded on July 21, 1981 and drilled to a total depth of 5,890' (driller), 5,878' (Schulumberger), penetrating the Akah Zone, of the Pennsylvanian Paradox Formation. The primary objective was the Lower Ismay Zone with the secondary objective being the Desert Creek Zone, both of the Paradox Formation.

In the Lower Ismay a drilling break occurred at 5,676' - 5,682' in a dolomite, whereas drill rate increased from 8 min/ft to 5 min/ft. A gas kick from 10 units to 80 units was also observed in this interval. A Drill Stem Test of this interval along with Electric Logs was evaluated, resulting in porosity and permeabilities being too low for hydrocarbon production.

In the Desert Creek a drilling break occurred at 5,810' to 5,832' in a dolomite, whereas drill rate increased from 5 min/ft to 2 min/ft. Gas kicks were observed at this interval of 100 and 230 units, from a background of 20 units. A Drill Stem Test along with electric log evaluations showed porosity and permeability very low.

Consequently, the hole was plugged and abandoned according to federal regulations.

FORMATION TOPS

FEDERAL 1-24
KB 4,716

FORMATION	DEPTH	SUBSEA OR DATUM
Cutler	2,600	+2,116
Hermosa	4,694	+ 22
Ismay	5,536	- 820
Lower Ismay	5,630	- 914
B Shale	5,710	- 994

DAILY CHRONOLOGY

1981 DATE	12:01 A.M. DEPTH	24 HOUR FOOTAGE	DAILY RECORD
7/29	2,190	--	Drilling.
7/30	2,610	420	Drilling, Trip for Bit #2.
7/31	2,902	292	Drilling, Trip for plugged jets in bit.
8/1	3,066	164	Trip cont., Drilling.
8/2	3,350	284	Drilling, Work on Power Plant.
8/3	3,678	328	Drilling.
8/4	3,795	117	Drilling, Trip for Bit #4.
8/5	4,063	268	Drilling, Work on #1 Pump.
8/6	4,264	201	Drilling, Work on pumps.
8/7	4,414	150	Drilling, Trip for pipe washout.
8/8	4,640	226	Drilling.
8/9	4,824	184	Drilling, Work on pumps.
8/10	5,032	208	Drilling.
8/11	5,141	109	Drilling, Trip for Bit #5.
8/12	5,322	181	Drilling, Work on #1 Pump.
8/13	5,526	204	Drilling #1.
8/14	5,695	169	Trip for DST #1.
8/15	5,695	0	Strap out run DST #1, Trip in drilling.
8/16	5,891	196	Strap out for DST #2.
8/17	5,891	0	Run DST #2, Circulate Run Logs, Start plugging procedures.

MUD RECORD

MUDDED UP AT _____ ON _____

1981 DATE	DEPTH	WT.	F.VIS.	P.VIS.	YIELD	GEL STRNT	PH	FILTR	CK.	ALKA.	SALT	CHLO	CALCIUM	GYP / SAND	SOLID/%WTR.	CUMULATIVE COST
7/31	2953	9.0	39	14	4	2/5	9.5	8.4	1			350	80		6	
8/1	3385	9.0	42	20	5	1/3	9.5	8.4	1			500	80		4.8	
8/2	3563	9.0	48	14	2.6	6/13	11.5	10.6	2			1,000	160		4.8	
8/3	3795	9.0	48	14	4	1/3	11.5	10.2	2			1,000	160		4.8	
8/4	3990	9.2	46	10	10	3/4	10	9.2	2	.3		900	80		6	
8/5	4284	9.2	45	13	3	2/4	9.0	10.2	2			800	120		6	
8/6	4330	9.1+	38	8	4	2/3	9.0	11.2	2			1,000	200		5	
8/7	4560	9.1	38	9	3	2/5	9.4	11.8	2			900	80		5	
8/8	4800	9.2+	48	14	6	3/12	10.5	10.0	2			600	20		6	
8/9	4980	9.3	42	12	9	3/5	11.5	9.8	2			500	20		7	
8/10	5115	9.3	39	9	5	3/4	10.5	13.2	2	.8		400	180		7	
8/11	5214	9.4	40	18	2	2/5	11.5	6.4	1			600	60		7.8	
8/12	5417	9.4	40	19	5	1/3	11.0	6.4	1			450	180		7.8	
8/13	5622	9.4	50	20	12	3/5	11.0	6.4	1			300	80		7.8	
8/14	5695	9.5	60	50	10	3/7	11.0	6.0	1			300	80		8.5	
8/15	5852	9.5	50	25	10	4/9	11.0	7.4	1			350	80		8.5	
8/16	5890	9.5	48	30	10	3/7	10.5	8.0	1			350	120		8.5	

BIT RECORD

BIT NO.	MAKE	TYPE	SIZE	DEPTH IN	DEPTH OUT	FOOTAGE	HOURS
1	STC	F-2	12¼	Surface	1,800	1,800	39
2	HTC RR	J-22	8-3/4	1,800	2,290	490	23¼
3	STC RR	F-2	8-3/4	2,290	2,899	609	34
4	HTC	J-22	8-3/4	2,899	3,795	896	80
5	STC	F-2	8-3/4	3,795	5,114	1,319	151½
6	HTC	J-33	8-3/4	5,114	5,695	584	74¼
7	STC	F-3	8-3/4	5,695	5,891	196	20

DRILLING FUNCTIONS

DEPTH	WOB	RPM	PP	DEVIATION
2,060	40,000	50	1,200	¼°
2,300	40,000	55	1,025	¼°
2,600	40,000	55	1,050	¼°
2,870	40,000	55	1,100	¼°
2,901	40,000	60	1,100	¼°
3,000	40,000	55	1,050	¼°
3,600	40,000	55	1,100	½°
3,840	40,000	55	900	½°
4,690	48,000	55	1,200	3/4°
5,000	46,000	52	1,200	3/4°
5,100	38,000	55	1,000	1°
5,158	30,000	50	600	1°
5,178	45,000	60	1,000	1°
5,520	45,000	60	1,100	1°
5,660	46,000	60	800	1°
5,695	40,000	60	1,100	1°

DRILL STEM TEST #1

Formation:	Lower Ismay
Interval:	5,616' to 5,695'
Reason For Test:	Gas Kick And Drill Break
Type Test:	Conventional Dual Packer @ 5,612' and 5,616'
Testing Company:	Halliburton
Tester:	Larry Gibson
Water Cushion:	None
IF 15 Minutes:	Very Weak Blow
ISI 60 Minutes:	--
FF 60 Minutes:	No Blow, 0 PSI
FSI 120 Minutes:	--
Recovery:	10' Drilling Mud
Bottom Hole Sampler:	Pressure - 0 PSI Recovery - 2,100' cc
Resistivity Data:	Drill Pipe Recovery: -- Top: 2.78 @ 83° 1,151 PPM Cl Sampler: 3.21 @ 85° 909 PPM Cl Mud Pit: 1.35 @ 85° 2,424 PPM Cl

Pressures:	Top Chart (6,040)	Bottom Chart (6,040)
IH:	2,005	2,341
IF:	24 to 24	67.8 to 65.1
ISI:	24 to 27	65.1 to 84.1
FF:	29.8 to 29.8	84.1 to 70.5
FSI:	29.8 to 32.5	70.5 to 28.6
FH:	2,005	2,028

Top Choke: None Bottom Choke: 3/4"

Bottom Hole Temperature: 120°

Remarks: Mechanically Good Test

DRILL STEM TEST #2

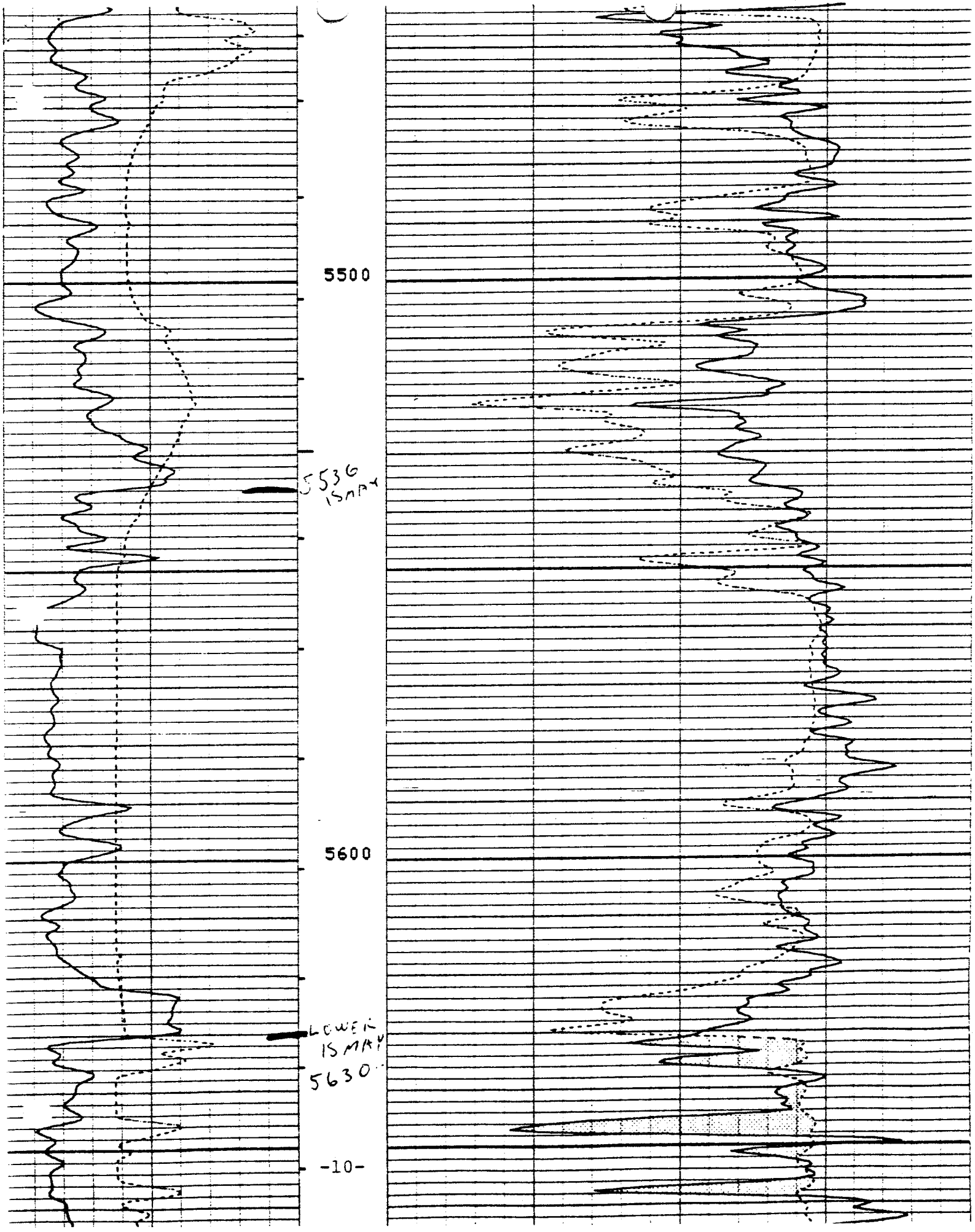
Formation:	Desert Creek
Interval:	5,792' to 5,890'
Reason For Test:	Gas Kicks And Drill Breaks Within Desert Creek.
Type Test:	Conventional DST 2 Packers Set @ 5,786 and 5,792.
Testing Company:	Halliburton
Tester:	Larry Gibson
Water Cushion:	None Used
IF 15 Minutes:	Very Weak Blow, Died After 5 Minutes.
ISI 60 Minutes:	--
FF 60 Minutes:	No Blow
FSI 120 Minutes:	--
Recovery:	300' Drilling Mud
Bottom Hole Sampler:	Pressure- 0 Recovery - 1,600 ML Drilling Mud
Resistivity Data:	Drill Pipe Recovery: -- Top: 1.80 @ 87° 2,000 PPM Cl Middle: 1.40 @ 88° 2,000 PPM Cl Bottom: 1.40 @ 89° 1,696 PPM Cl Sampler: 1.60 @ 86° 1,818 PPM Cl Mud Pit: 1.80 @ 86° 1,878 PPM Cl

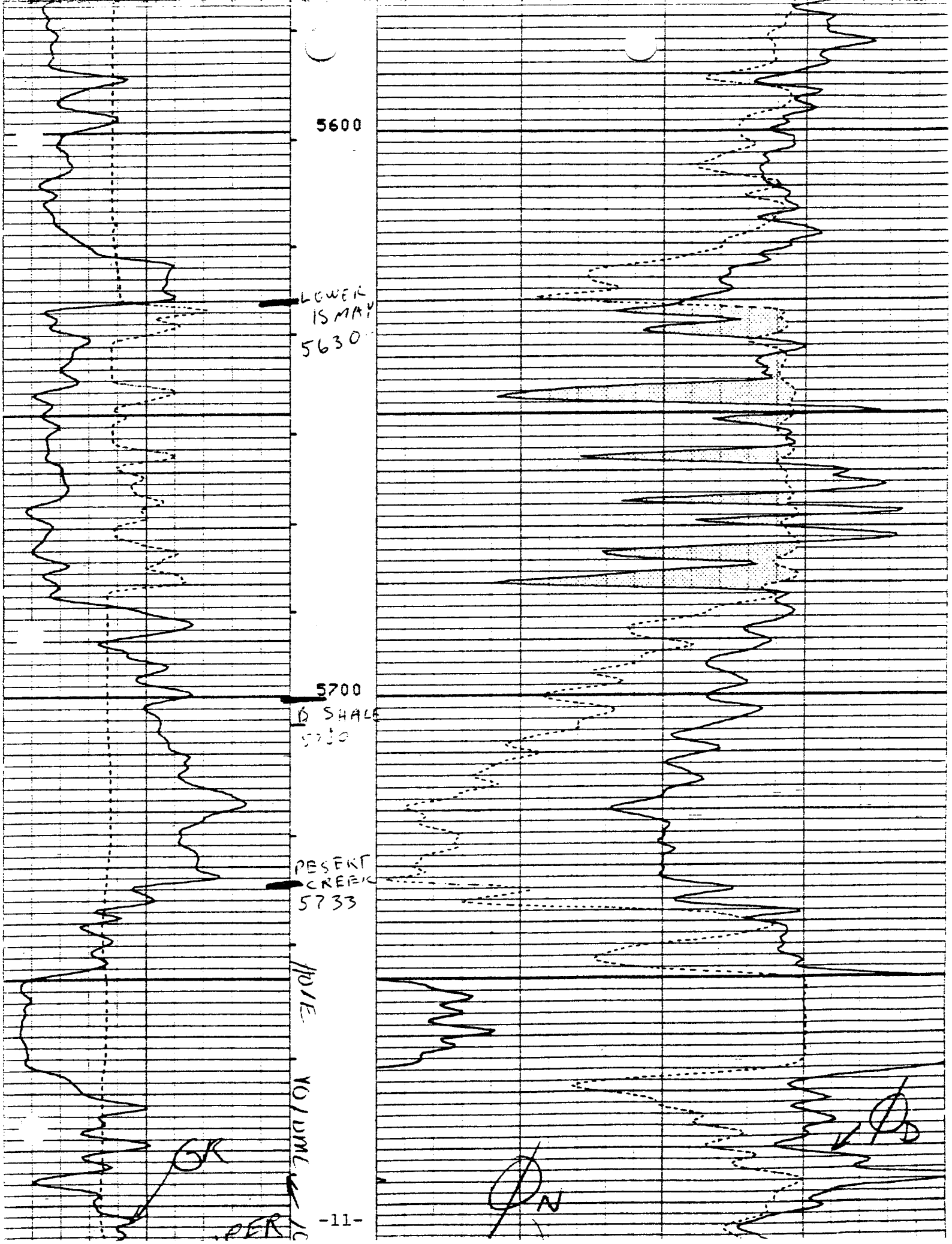
Pressures:	Top Chart (6,040)	Bottom Chart (6,040)
	IH: 2838.8	IH: 2871.0
	IF: 81.1 to 81.1	IF: 135.6 to 162.7
	ISI: 81.1 to 1620.0	ISI: 162.7 to 1677.6
	FF: 108.2 to 135.2	FF: 162.0 to 189.8
	FSI: 135.2 to 1512.2	FSI: 189.8 to 1596.3
	FH: 2784.6	FH: 2843.8

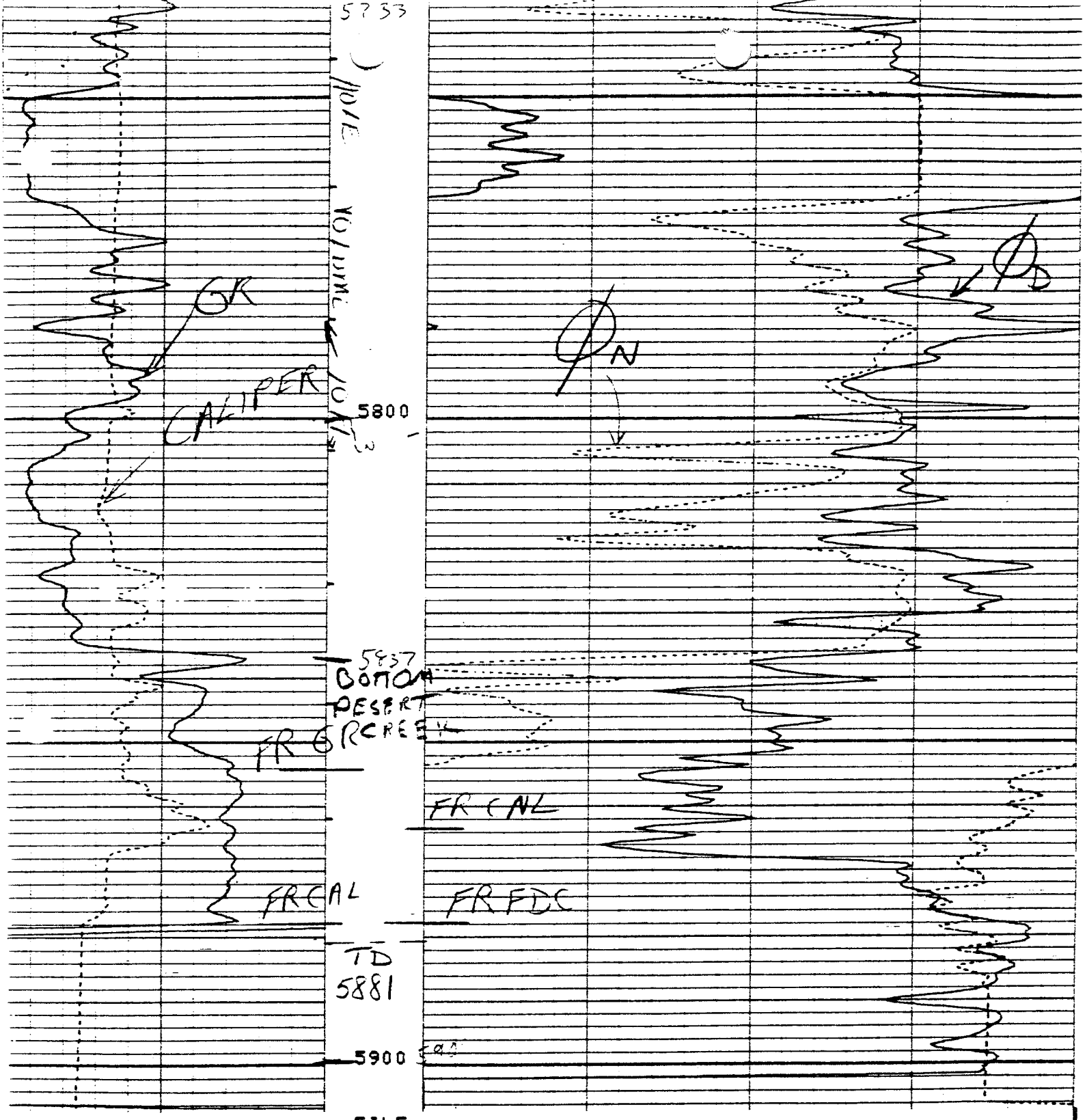
Top Choke: None Bottom Choke: 3/4"

Bottom Hole Temperature: --

Remarks: Mechanically Good Test


5500
5536
ISMAY
5600
LOWER
ISMAY
5630
-10-


5600
LOWER ISMAY
5630
5700
D SHALE
5730
PESERT CREEK
5733
HOLE VOLUME
OK
PER
ϕ_N
ϕ_D



FILE

12

CALI(IN)		DPHI(2.71)
6.000 16.00		0.3000 -0.100
GR (GAPI)		NPHI(45)
0 200.0		0.3000 -0.100

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

NCNL 18.3 FEET GR 26.8 FEET

FDC 2.0 FEET FCNL 18.3 FEET

LITHOLOGY

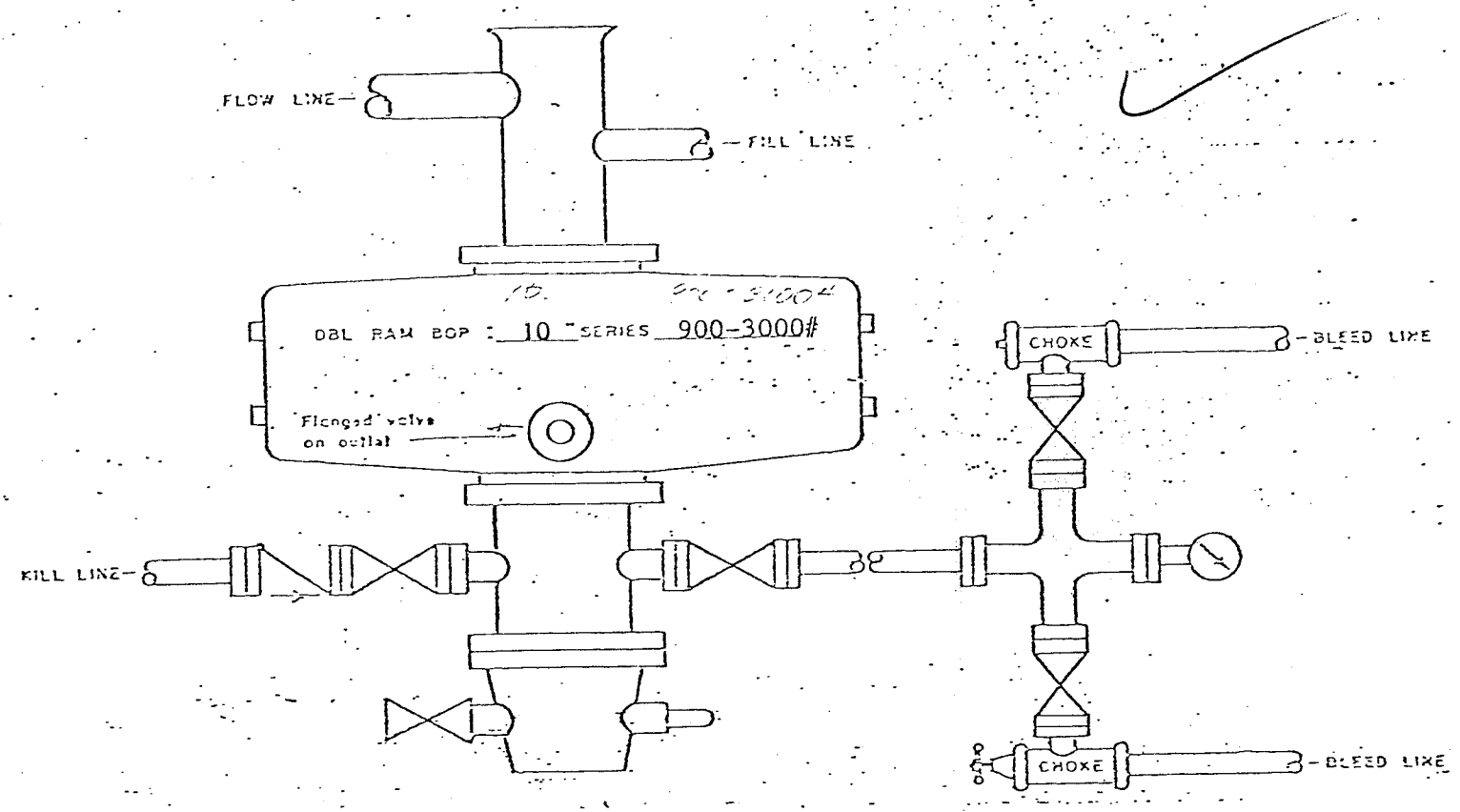
3,500 - 3,600	SILTSTONE - rd brn-brn, m ind, arg, occ sdy, v calc.
3,600 - 3,610	SANDSTONE - clr, occ wh, gen fri, f gr, sbang, m srt, calc cmt, p-fr Ø.
3,610 - 3,696	SILTSTONE - rd brn-orng/occ gn, m ind, arg, sdy, tr mica.
3,696 - 3,706	LIMESTONE - Rd brn-brn, frm, micxl, sl arg, occ anhy.
3,706 - 3,720	SANDSTONE - clr, occ wh, fri, f gr, sbang, m srt, calc cmt.
3,720 - 4,080	SILTSTONE - rd brn-brn, p-m ind, gen shy, occ sdy, calc cmt. SHALE - rd brn, sft-frm, blky-plty, gen slty, gen calc, occ sdy.
4,080 - 4,200	SILTSTONE - rd brn-orng, occ wh, m ind, occ sdy, calc cmt. SHALE - rd brn, gen frm, blky-plty, occ slty, occ calc. SANDSTONE - clr-ltgy, uncons-fri, f-m gr, sbang, p srt, calc cmt, p Ø.
4,200 - 4,370	SHALE - gy-rd brn, sft-frm, blky, occ plty, gen slty, calc. SILTSTONE - gy-brn-rd brn, p-m ind, occ sdy, shy, calc cmt.
4,370 - 4,382	SANDSTONE - clr-wh, uncons-fri, f-m gr, sbrnd-sbang, m-p srt, calc cmt, p-fr Ø.
4,382 - 4,454	SILTSTONE - gy brn-brn, p-m ind, shy, occ sdy, gen calc.
4,454 - 4,696	SILTSTONE - gbrn-brn, occ wh, p-m ind, occ sdy, shy, calc. SHALE - gy-dkgy, occ brn, blky, occ plty, gen slty, calc. LIMESTONE - wh-ltgy, frm-hd, micxl, arg, gen slty, occ sdy.
4,696 - 4,900	LIMESTONE - w - lt gy, frm-hd, micxl, occ crpxl, sl-arg, occ slty. SILTSTONE - wh-gy, p-m ind, gen sdy, calc cmt, p Ø.
4,900-4,920	SHALE - gy-brn-rd brn, frm, blky-plty, gen slty, calc.
4,920-4,954	SANDSTONE - clr-wh, uncons-fri, m gr, sbang-sbrnd, m srt, calc cmt, p-fr Ø.

LITHOLOGY (CONTINUED)

4,954 - 5,066	LIMESTONE - lt gy-gy, occ wh, sft-frm, micxl, gen arg. SHALE - brn-by, frm-hd, blky occ plty, gen slty, calc. SHALE - ltbrn-by, occ rdbrn, sft-frm, blky-plty, calc.
5,098 - 5,186	SHALE - ltbrn-gy, sft-frm, blky-plty, calc. LIMESTONE - wh-ltgy, frm, occ hd, f-micxl, arg, occ sdy.
5,186 - 5,260	LIMESTONE - wh-ltgy, sft-frm, blky-plty, calc. SILTSTONE - gy-brn, m ind, occ w/ calc cmt, p Ø.
5,260 - 5,266	SANDSTONE - clr-wh, uncons-fri, vf-f gr, sbang, m-p srt, gen slty, calc cmt, fr-p Ø, NSOFC.
5,266 - 5,536	LIMESTONE -wh-ltgy, brn, frm, micxl, gen arg, occ dol, sl slty. SHALE - gy-gybrn, occ ltgn, frm, plty-blky, slty, calc. SILTSTONE - clr-w, m ind, occ shy, calc cmt, p Ø.
5,536 - 5,560	SANDSTONE - wh-ltgy, uncons-fri, vf gr, sbrnd, m-w srt. DOLOMITE - w/calc cmt, slty, tr glauc, gen p Ø, NSOFC.
5,560 - 5,620	LIMESTONE - dolm, ltgy-dkgy, occ brn, frm, f-micxl, sl arg, p Ø, NSOFC.
5,620 - 5,642	SHALE - gy-dkgy, frm-hd, blky, vslty, calc.
5,642 - 5,678	LIMESTONE - wh-lt brn, frm, occ hd, f-micxl, arg, occ sd, p Ø, NSOFC.
5,678 - 5,734	SHALE - dkgy-blk, gen v sft, occ frm, blky, occ plty, card, calc, occ slty.
5,734 - 5,750	ANHYDRITE - wh, sft, mas.
5,750 - 5,788	DOLOMITE/LIMESTONE - wh-ltgy, sft-frm, mic-crpxl, arg, gen p Ø, NSOFC.
5,788 - 5,832	DOLOMITE - tan, occ brn, sft-frm, mic-crpxl, arg, occ p-fr, intxl Ø, slow wk yel flor cut.
5,832 - 5,891	SHALE - dkgy-blk, v sft-sft, blky-plty, occ slty, occ dol, v slow wk yel flor cut.

San Juan County, Utah
Lease No. 21253

Typical Minimum BOP Specs (Schematic drawing)



Notes and Auxiliary Equipment

1. All lines, valves and fittings to be minimum 2"-3000# WP
2. All bolts to be installed and tight.
3. All crew menbers to be trained in and familiar with BOP equipment, accumulators, and procedures.
4. Hole to be kept full at all times.
5. (a) After nippling up, preventers will pressure tested at 1000 psi for 15 minutes before drilling out.
   (b) BOP will be inspected and operated at least daily to insure good working order.
   (c) All pressure and operating tests will be recorded on daily drilling report.
6. An upper kelly cock will be used at all times.
7. A drill pipe float will be available at all times for use when penetrating formations with anticipated abnormal pressures.
8. Mud system monitoring method: Visual
9. A 3000 psi WP full opening valve, properly subbed w/DP pin, will be available on the floor at all times.

ENVIRONMENTAL IMPACT SURFACE USE AND
OPERATIONS PLAN FOR FEDERAL LEASES

MOSBACHER PRODUCTION CO.
NE SW SECTION 24, T 39 N, R 21 E
SAN JUAN COUNTY, UTAH
LEASE NO. UTAH 21253

The following data is submitted herewith to supplement Application For Permit to Drill the captioned well:

1. EXISTING ROADS Refer to MAP A (Shown in RED)

   A. Proposed well site as staked. (Actual staking should include two each 200-foot reference stakes.)

      The proposed well is staked and the surveyor's plat is attached.

   B. Route and distance from nearest town or locatable reference point to where access route leaves main road.

      Travel north of Bluff on Highway 163 approximately 6.5 miles. Turn left on existing dirt road and travel 3.5 miles west to the location.

   C. Access road to location color coded or labeled.

      Refer to Map A shown in RED.

   D. If exploratory, show existing roads within a three mile radius (including type of surface conditions, etc.).

      Existing roads within a three mile radius are shown on Map A. The existing roads are dirt.

   E. If development, show existing roads within one mile radius of well site.

      N/A

   F. Plans for improvement and/or maintenance of existing roads.

      There are no plans to improve existing raods, but they will be maintained as necessary, flat blading existing trail to location.

2. PLANNED ACCESS ROADS (Map showing necessary access roads to be constructed or reconstructed, showing:)

   Refer to Map A (Shown in GREEN)

1. Width -18'

2. Maximum grade - 4% or less

3. Turn out - None required

4. Drainage design - No ditching will be required for drainage during the drilling of this well

5. Location and size of culverts and brief description of any major cuts and fills- There will be no major cut or fills and no culverts will be necessary.

6. Surface material - None required

7. Necessary gates, cattleguards or fence cuts - None required.

8. New or reconstructed roads are to be center-line flagged at time of location staking- Center line of the proposed road is flagged.

3. LOCATION OF EXISTING WELLS: Refer to Exhibit #1

Two-mile radius map if exploratory, or 1-mile radius map if development well, showing and identifying existing:

1. Water wells - Ø

2. Abandon wells - 1

3. Temporarily abandoned wells - Ø

4. Disposal wells - Ø

5. Drilling wells - Ø

6. Producing wells - Ø

7. Shut-in wells - Ø

8. Injection wells - Ø

9. Monitoring or observation wells or other resources - Ø

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.

A. Within one mile radius of location showing the following existing facilities owned or controlled by lessee operator.

1. Tank batteries - Ø

2. Production facilities - Ø

3. Oil gathering lines - Ø

4. Gas gathering lines - Ø

5. Injection lines - Ø

6. Disposal lines - (note if lines are buried) N/A

B. New facilities contemplated in the event of production show:

Refer to Exhibit #2

1. Proposed location and attendant lines by flagging, if off well pad - All facilities will be located on the drill pad but will not be placed on fill.

2. Dimensions of facilities - Production facilities will requie an area of approximately 150' x 300'.

3. Constructed methods and material - Pumping unit only will be built on the existing drill pad. No Federal or Indian lands will be disturbed for construction materials.

4. Protective measures and devices to protect livestock

Fences will be installed around all facilities.

C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction completed:

Rehabilitation of disturbed areas no longer needed for operation will be accomplished by grading, leveling and seeding as recommended by the B.L.M.

5. LOCATION AND TYPE OF WATER SUPPLY Refer to Map A (Shown in BLUE).

A. Location and type of water supply either on map or by written description.

Water will be trucked to the location from a private pond just outside of Bluff, Utah.

B. State method of transporting water and show any roads or pipelines needed.

Water will be trucked-see Map 'A'

C. If water well is to be drilled on lease, so state:

No water well will be required.

6. SOURCE OF CONSTRUCTION MATERIALS

A. Show information either on map or by written description:

If any construction materials are required they will be obtained from private sources. No material obtained from Federal or Indian Lands.

B. Identify if from Federal land.

Dirt will be from private sources.

C. Describe where materials such as sand, gravel, stone and soil material are to be obtained and used:

Materials such as sand, gravel or stone, if required, will be obtained from private source. No Federal or Indian Land involved.

D. Show any needed access roads crossing Federal or Indian lands under Item 2:

No access road for construction materials will be necessary.

7. METHODS FOR HANDLING WASTE DISPOSAL

Describe methods and location of proposed containment and disposal of waste material, including:

1. Cuttings -Drill cuttings separated from the mud will be contained in the reserve pit.

2. Drilling fluids

Drilling fluids will be contained in the mud tanks and in a reserve pit. The reserve pit will be fenced on three sides during drilling operations with woven wire and two strands of barb wire on top.

3. Produced fluids (oil, water)

Produced fluids, both oil and water will be contained in a test tank.

4. Sewage - A portable ,chemical toilet will be provided.

5. Garbage and other waste material should be fenced with mesh wire.

A fenced pit will be provided for trash. The pit will be completely enclosed with small mesh wire.

6. Statement regarding cleanup of well site area when rig moves out.

As soon as the rig moves out the area will be cleaned of all trash and materials and the fourth side of the pit fenced. The location and the reserve pit be leveled and restoration work will will begin as soon as possible.

8. AUXILIARY FACILITIES

Identify all proposed camps and air strips on a map as to their location, area required, and construction methods:

No camps or airstrips will be constructed.

9. WELL SITE LAYOUT A plat not less than 1" = 50' showing:

1. Cross Section of drill pad with cuts and fills

   Refer to Exhibit #3

2. Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil stockpiles.

   Refer to Exhibit #2

3. Rig orientation, parking areas and access roads.

   Refer to Exhibit #2

4. Statement as to whether pits are to be lined or unlined.

   The pits will be lined with plastic.

10. PLANS FOR RESTORATION OF SURFACE

State restoration program upon completion of operations including:

1. Backfilling, leveling, contouring and waste disposal, segregation of spoils materials as needed.

   Pits will be allowed to dry and will be backfilled and contoured to as near the original topography as is possible and then reseeded.

   Spoils material will be segregated and burned, hauled away or burned as soon as possible after the operations have ceased.

2. Revegetation and rehabilitation - including access roads. (Normally per BLM recommendations)

   Revegetation will be achieved by seeding with a mixture as required by the B.L.M., including the access road if required.

3. Prior to rig release, pits will be fenced and so maintained until clean-up.

   Prior to rig release, the pits will be fenced on all four sides and will be so maintained until restoration work is initiated.

4. If oil on pit, remove oil or install overhead flagging.

The oil in the pit will be removed, or if this isn't possible, overhead flagging will be installed.

5. Time table for commencement and completion of rehabilitation operations.

Rehabilitation operations will begin as soon as practical after the rig is off location and should be completed by Spring 1982.

11. OTHER INFORMATION General description of:

1. Topography, soil characteristics, geological features, flora and fauna.

Refer to Archeological Report.

2. Other surface use activities and surface ownership of all involved land.

The surface is used for livestock grazing.
Surface owner: B.L.M.

3. Proximity of water, occupied dwellings, archeological, historical or cultural sites.

The general drainage is south to the San Juan River. There are no occupied dwellings, archeological, historical or cultural sites visible on or near the location. The nearest occupied dwelling is approximately 6.5 miles to the south.

12. LESEE'S OR OPERATOR'S REPRESENTATIVE:

Mr. Don Green
Operations Manager
Mosbacher Production Co.
Suite 2100
Capital National Bank Bldg.
Houston, Tx. 77002

Allen, Bludworth & Crouch
P.O. Box 976
Casper, Wy. 82602

307 234 0592
307 234 3571
L.E. Bludworth*
B.W. Allen*

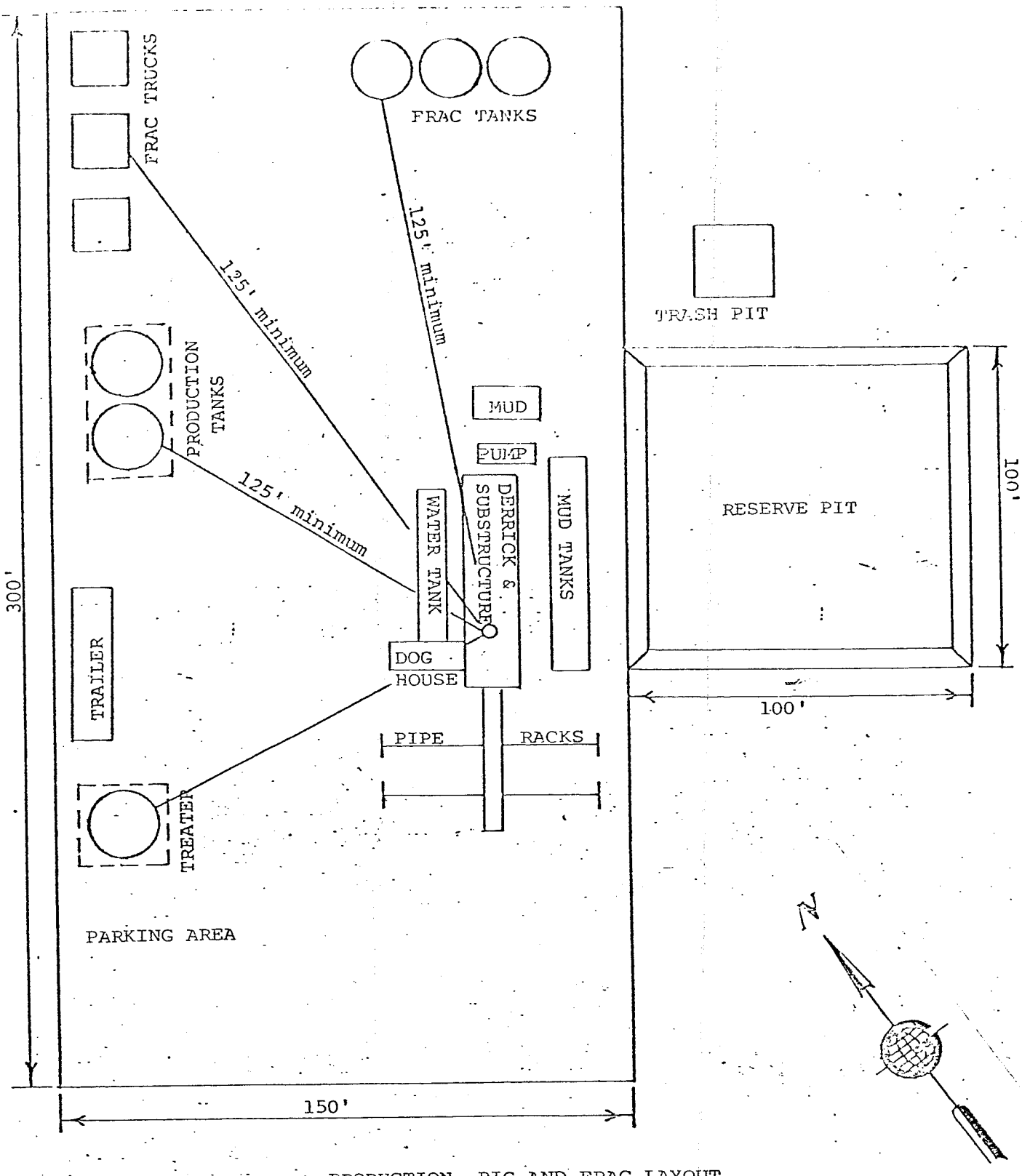
*Contact for Pre-drill Inspection

13. CERTIFICATION:

I hereby certify that I or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Mosbacher Production Co. and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

B.W. Allen 6/22/81

Date

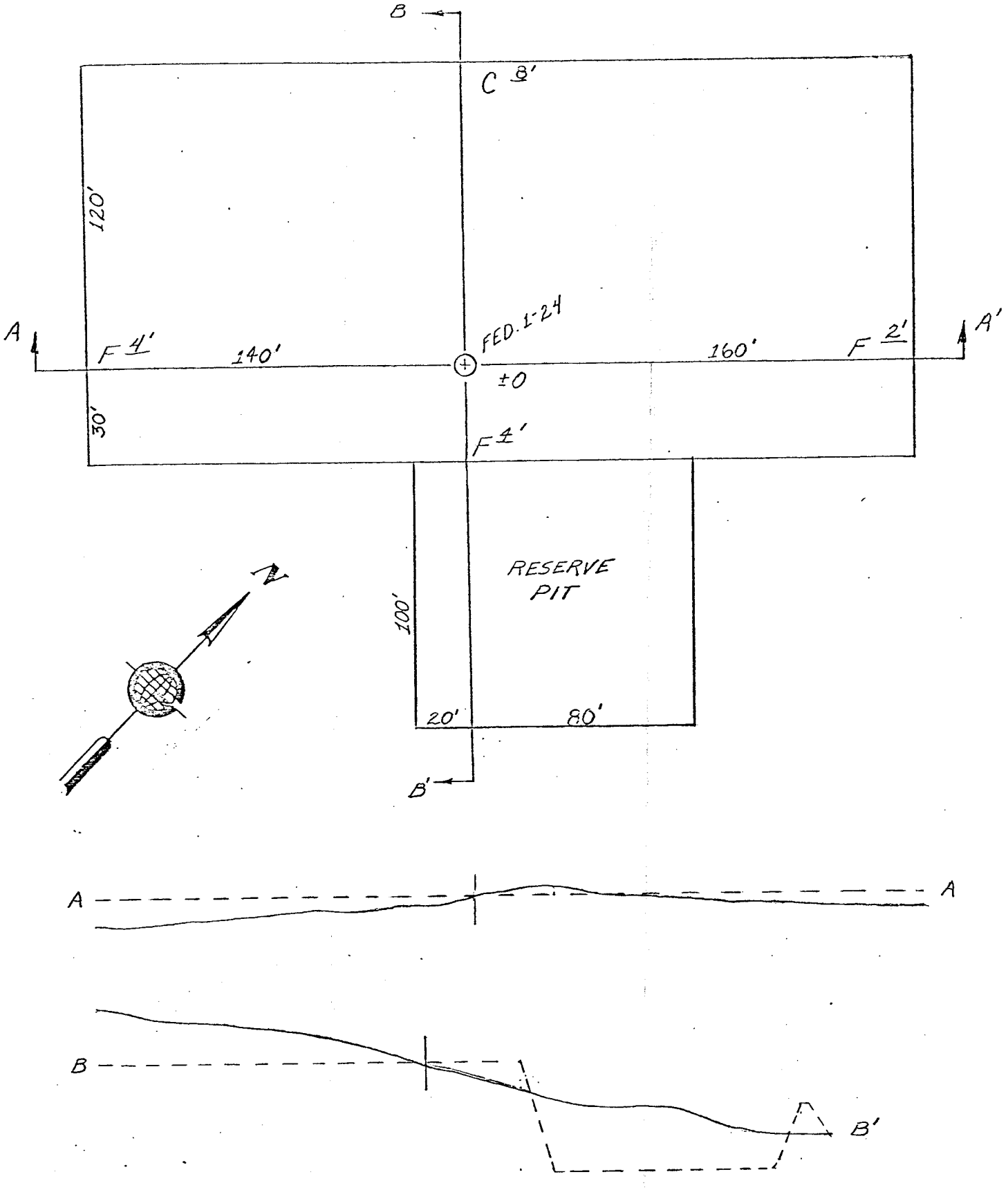


PRODUCTION, RIG AND FRAC LAYOUT

EXHIBIT #2

L.E.B.
6-10-81

SEARCHER PRODUCTION CO.



SCALE: 1" = 50' HOR. & 1" = 20' VERT.

EXHIBIT #3

STIPULATIONS

Well sign should read:

Mosbacker Production Co.
U-21253 U-16555
No. 1-24 Federal No. 26-1 FEDERAL
NESW 24-39S-21E NE NE 26-39S-21E
San Juan County, Utah

Construction:

1. The operator or his contractor will contact the San Juan Resource Area Office in Monticello, Utah (Phone (801) 587-2201) 48 hours prior to beginning any work on public land.

2. The dirt contractor will be furnished with a copy of the Surface Use Plan and any additional BLM stipulations prior to any work.

3. The San Juan County Road Department in Monticello will be contacted prior to the use of county roads for this activity, Mr. Dick Traister at (801) 587-2249.

4. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.

5. Surfacing material will not be placed on the access road or location without prior BLM approval.

6. The top 10 inches of soil material will be removed from the location and stockpiled on the west side of the location. Topsoil along the access will be reserved in place.

7. A burning permit will be required before burning trash between May 1 and October 31. This can be aquired by contacting the State Fire Warden, John Baker at (801) 587-2705.

Rehabilitation

1. The operator or his contractor will contact the San Juan Resource Area BLM office in Monticello, Utah, phone (801) 587-2201, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.

2. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography.

3. The stockpiled topsoil will be evenly distributed over the disturbed area.

4. All disturbed areas will be scarified with the contour to a depth of ~~10~~ 6-8 inches.

5. Seed will be (broadcast) at a time to be specified by the BLM with the following seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover.

3	lbs/acre	Indian ricegrass (Oryzopsis hymenoides)
2	lbs/acre	Fourwing saltbush (Atriplex canescens)
2	lbs/acre	~~Sand~~ Curly grass dropseed (Sporobolus cryptandrus)

Production

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. Enough topsoil will be retained to reclaim the remainder of the location at a future date. The remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

2. All above-ground production facilities will be painted a neutral color to be approved by the BLM.

3. The access shall be upgraded to the following specifications:

   Ditch and crown to 18 feet total width. Culvert will be installed if necessary.

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: UTAH 21253

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: Federal

9. WELL NO.: 1-24

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 24, T39S-R21E

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other EXPLORATORY

2. NAME OF OPERATOR: MOSBACHER PRODUCTION CO.

3. ADDRESS OF OPERATOR: 1300 Main St., Suite 2100, Houston, Tx 77002

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FWL 7 1980' FSL; NE SW, Section 24
At top prod. interval reported below
At total depth: SAME

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43-037-30714

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
N/A	7/6/81	San Juan	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
7/21/81	8/15/81	8/18/81 P&A	RKB 4716', DF 4715', GL4703'	---

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5890' MD	Surface	----	→	0-5890'	----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Compensated Neutron Form. Density; Ind. SFL

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	205'	17-1/2"	220 sxs Cl G	0
9-5/8"	36#	1768'	12-1/4"	627 sxs Cl G	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS: DST's, Geological Report, Logs.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED: Beverly A. Dausin (Beverly A. Dausin) TITLE: Engineering Asst. DATE: 10/9/81

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
		(SEE ATTACHED)	

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
(SEE ATTACHED)		

U.S. GOVERNMENT PRINTING OFFICE : 1963 O-683636

GPO 680-378

LITHOLOGY

3,500 - 3,600	SILTSTONE - rd brn-brn, m ind, arg, occ sdy, v calc.
3,600 - 3,610	SANDSTONE - clr, occ wh, gen fri, f gr, sbang, m srt, calc cmt, p-fr Ø.
3,610 - 3,696	SILTSTONE - rd brn-orng/occ gn, m ind, arg, sdy, tr mica.
3,696 - 3,706	LIMESTONE - Rd brn-brn, frm, micxl, sl arg, occ anhy.
3,706 - 3,720	SANDSTONE - clr, occ wh, fri, f gr, sbang, m srt, calc cmt.
3,720 - 4,080	SILTSTONE - rd brn-brn, p-m ind, gen shy, occ sdy, calc cmt. SHALE - rd brn, sft-frm, blky-plty, gen slty, gen calc, occ sdy.
4,080 - 4,200	SILTSTONE - rd brn-orng, occ wh, m ind, occ sdy, calc cmt. SHALE - rd brn, gen frm, blky-plty, occ slty, occ calc. SANDSTONE - clr-ltgy, uncons-fri, f-m gr, sbang, p srt, calc cmt, p Ø.
4,200 - 4,370	SHALE - gy-rd brn, sft-frm, blky, occ plty, gen slty, calc. SILTSTONE - gy-brn-rd brn, p-m ind, occ sdy, shy, calc cmt.
4,370 - 4,382	SANDSTONE - clr-wh, uncons-fri, f-m gr, sbrnd-sbang, m-p srt, calc cmt, p-fr Ø.
4,382 - 4,454	SILTSTONE - gy brn-brn, p-m ind, shy, occ sdy, gen calc.
4,454 - 4,696	SILTSTONE - gbrn-brn, occ wh, p-m ind, occ sdy, shy, calc. SHALE - gy-dkgy, occ brn, blky, occ plty, gen slty, calc. LIMESTONE - wh-ltgy, frm-hd, micxl, arg, gen slty, occ sdy.
4,696 - 4,900	LIMESTONE - w - lt gy, frm-hd, micxl, occ crpxl, sl-arg, occ slty. SILTSTONE - wh-gy, p-m ind, gen sdy, calc cmt, p Ø.
4,900-4,920	SHALE - gy-brn-rd brn, frm, blky-plty, gen slty, calc.
4,920-4,954	SANDSTONE - clr-wh, uncons-fri, m gr, sbang-sbrnd, m srt, calc cmt, p-fr Ø.

FLUID SAMPLE DATA

Sampler Pressure 30 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas 0
cc. Oil 0
cc. Water 0
cc. Mud 1600 ML
Tot. Liquid cc.
Gravity ° API @ °F.
Gas/Oil Ratio cu. ft./bbl.

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water		@	°F.	ppm
Recovery Mud		@	°F.	ppm
Recovery Mud Filtrate		@	°F.	ppm
Mud Pit Sample	1.80	@ 76	°F.	ppm
Mud Pit Sample Filtrate		@	°F.	ppm

Mud Weight 9.5 vis 50 sec.

Date 8-16-81 Ticket Number 981706
Kind of D.S.T. OPEN HOLE Halliburton Location FARMINGTON
Tester LARRY GIBSON Witness
Drilling Contractor ARAPHOE # 6 IC-dr

EQUIPMENT & HOLE DATA

Formation Tested Desert Creek
Elevation 4703' GR-4716' KB Ft.
Net Productive Interval - Ft.
All Depths Measured From 4716' KB
Total Depth 5890' Ft.
Main Hole/Casing Size 8 3/4"
Drill Collar Length 468' I.D. 2 1/4"
Drill Pipe Length 5288' I.D. 3.826"
Packer Depth(s) 5786'-5792' Ft.
Depth Tester Valve 5763.5' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve Surface Choke Bottom Choke 3/4"

Recovered 300 Feet of drilling mud
Recovered Feet of TOP SAMPLE 1.4o Res. @ 89 °F.
Recovered Feet of MIDDLE SAMPLE 1.40 @ 85°F
Recovered Feet of BOTTOM SAMPLE 1.66 @ 85°F.
Recovered Feet of

Mea. From Tester Valve

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Remarks SEE PRODUCTION TEST DATA SHEET

*-See attached incremental pressure sheet

TEMPERATURE	Gauge No. 6040 Depth: 5768.5 Ft.	Gauge No. 6039 Depth: 5885.5 Ft.	Gauge No. Depth: Ft.	TIME (00:00-24:00 hrs.)
	24 Hour Clock	24 Hour Clock	Hour Clock	Tool Opened 05:53
Est. °F.	Blanked Off No	Blanked Off Yes	Blanked Off	Opened Bypass 10:08
Actual 120 °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		2838.8	2816.3	2871.0	2869.8			—	—
First Period	Flow Initial	81.8	70.8	135.6	125.5			15	*
	Flow Final	81.8	87.4	162.7	144.4			60	*
	Closed in	1620.0	1611.6	1677.6	1672.5			—	—
Second Period	Flow Initial	108.2	113.1	162.7	166.3			60	*
	Flow Final	135.2	124.6	189.8	185.0			120	*
	Closed in	1512.2	1541.1	1596.3	1608.1			—	—
Third Period	Flow Initial								
	Flow Final								
	Closed in								
Final Hydrostatic		2784.6	2793.8	2843.8	2850.7			—	—

Legal Location Sec. - Twp. - Rng. 24-39S-21E
Lease Name FEDERAL
Well No. 1-24
Test No. 2
Tested Interval 5792-5890'
Field Area WILDCAT
County SAN JUAN
State UTAH
Lease Owner/Company Name MOSBACHER PRODUCTION COMPANY

FORM 181-R2 — PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S //

Casing perfs. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 981706

Gas gravity _____ Oil gravity _____ GOR _____

Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
8-15-81 2100					On location
0015					Picked up and made up tools
0100					Went in hole with tools
0551					ON bottom
0553	BH				Opened tool
0555	"				Very, very weak blow
0600	"				No blow at surface
0605	"				"
0608					Closed tool
0708					Opened tool
0713					No blow at surface
0718					"
0723					"
0728					"
0733					"
0733					"
0738					"
0743					"
0748					"
0753					"
0758					"
0803					"
0808					Closed tool
1008					Opened bypass and tool out of hole.
					Out of hole.

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PRODUCTION TEST DATA

LITTLE'S

MOSBACHER PRODUCTION COMPANY
Lease Owner/Company Name

9[illegible]06
Ticket Number

B.T. 6040 B.T. 6039 B.T. _____

Depth 5768 Depth 5885 Depth _____

Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp Corr	Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp Corr	Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp Corr
FIRST FLOW			FIRST FLOW					
0		70.8	0		125.5			
3		71.9	3		130.4			
6		76.1	6		134.0			
9		80.0	9		137.1			
12		83.4	12		141.2			
14.3		87.4	14.7		144.4			
FIRST CIP			FIRST CIP					
0		87.4	14.7		144.4			
5		137.2	5		196.2			
10		207.0	10		260.2			
15		310.0	15		360.4			
20		457.4	20		510.7			
25		655.7	25		705.4			
30		859.7	30		915.8			
35		1050.5	35		1105.7			
40		1212.3	40		1266.8			
45		1347.8	45		1403.4			
50		1460.4	50		1520.5			
55		1558.6	55		1617.8			
53.3		1611.6	58.5		1672.5			
SECOND FLOW			SECOND FLOW					
0		113.1	0		166.3			
10		113.6	10		170.5			
20		114.5	20		173.6			
30		116.6	30		175.5			
40		118.8	40		178.9			
50		121.6	50		181.0			
64.0		124.6	64.2		185.0			
SECOND CIP			SECOND CIP					
0		124.6	0		185.0			
10		151.2	10		218.7			
20		189.5	20		258.9			
30		240.9	30		311.8			
40		313.8	40		335.6			
50		409.7	50		437.8			
60		550.8	60		631.9			
70		737.6	70		819.1			
80		948.9	80		1027.4			
90		1146.8	90		1225.8			
100		1320.5	100		1396.4			
110		1454.7	110		1531.7			
118.3		1541.1	117.3		1608.1			

80-286C

11

TICKET NO. 981706

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	4 1/2"	3.826"	5288'	
Drill Collars	6"	3"	375'	
Reversing Sub	5 3/4"	3"	1'	5663.5'
Water Cushion Valve				
Drill Pipe				
Drill Collars	6"	2 1/4"	93'	
Handling Sub & Choke Assembly	5 3/4"	3 1/2"	1'	
Dual CIP Valve	5"	.75 "	6'	5757.5'
Dual CIP Sampler	5"	.75 "	5'	5763.5'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3"	4'	5768.5'
Hydraulic Jar	5"	1.75 "	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	1.53"	6'	5786.5'
Distributor				
Packer Assembly	7 3/4"	1.53"	6'	5792'
	5 3/4"	3 1/2"	1' Change over	
	6"	2 1/4"	62' Drill Collars	
Flush Joint Anchor				
Pressure Equalizing Tube	5 3/4"	3 1/2"	1' Change over	
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5 3/4"	3 1/2"	27'	
Blanked-Off B.T. Running Case	5 3/4"	2 1/2"	4.5'	5885.5'
Total Depth				5890'

EQUIPMENT DATA

FLUID SAMPLE DA

Date 8-14-81 Ticket Number 981705

Kind of D.S.T. OPEN HOLE Halliburton Location FARMINGTON

Tester LARRY GIBSON Witness GARY HOBBS

Drilling Contractor ARAPHOE DRILLING COMPANY RIG #6 bj

Sampler Pressure ____ P.S.I.G. at Surface

Recovery: Cu. Ft. Gas ____

cc. Oil ____

cc. Water ____

cc. Mud 2100

Tot. Liquid cc. 2100

Gravity ____ ° API @ ____ °F.

Gas/Oil Ratio ____ cu. ft./bbl.

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	____	@ ____	°F.	____ ppm
Recovery Mud	2.78	@ 83	°F.	1151 ppm
Recovery Mud Filtrate	____	@ ____	°F.	____ ppm
Mud Pit Sample	1.35	@ 83	°F.	2224 ppm
Mud Pit Sample Filtrate	____	@ ____	°F.	____ ppm
Mud Weight	9.4	vis 55	sec.	

EQUIPMENT & HOLE DATA

Formation Tested	Ismay		
Elevation	4703' GL	4716' KB	Ft.
Net Productive Interval	-		Ft.
All Depths Measured From	Kelly Bushing		
Total Depth	5695'		Ft.
Main Hole/Casing Size	8.75"		
Drill Collar Length	468'	I.D. 2.25"	
Drill Pipe Length	5112'	I.D. 3.826"	
Packer Depth(s)	5610'	5615'	Ft.
Depth Tester Valve	5589'		Ft.

Cushion	TYPE	AMOUNT	Ft.	Depth Back Pres. Valve	Surface Choke	Bottom Choke

Recovered 10 Feet of drilling mud

Recovered Feet of

Recovered Feet of

Recovered Feet of

Recovered Feet of

Remarks SEE PRODUCTION TEST DATA SHEET....

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TEMPERATURE	Gauge No. 6040	Gauge No. 6039	Gauge No.	TIME (00:00-24:00 hrs.)
Calc.	Depth: 5594.4' Ft.	Depth: 5690.5' Ft.	Depth: Ft.	Tool Opened 0843
Est. 130 °F.	24 Hour Clock	24 Hour Clock	Hour Clock	Opened Bypass 1257
Actual °F.	Blanked Off NO	Blanked Off YES	Blanked Off	

	Pressures		Pressures		Pressures		Reported Minutes	Computed Minutes
	Field	Office	Field	Office	Field	Office		
Initial Hydrostatic	4005	2808.9	4341.1	2847.8			____	____
First Period Flow Initial	24.4	25.6	67.8	63.6			14	
First Period Flow Final	24.4	25.6	65.1	66.3			60	
First Period Closed in	27.1	31.0	84.1	82.6			____	____
Second Period Flow Initial	29.8	28.3	70.5	70.4			60	
Second Period Flow Final	29.8	28.3	70.5	70.4			120	
Second Period Closed in	32.5	25.6	78.6	78.5			____	____
Third Period Flow Initial								
Third Period Flow Final								
Third Period Closed in							____	____
Final Hydrostatic	4005.5	2795.3	4028.6	2836.9				

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FORMATION TEST DATA

LITTLE'S

11

Legal Location Sec. - Twp. - Rng. 24 39S 21E

Lease Name FEDERAL

Well No. 1-24

Test No. 1

Tested Interval 5615' to 5695'

Field Area WILDCAT

Meas. From Tester Valve

County SAN JUAN

State UTAH

Lease Owner/Company Name MOSBACHER PRODUCTION COMPANY

Casing perfs. _____ Bottom choke _____ Surf. temp _____ Ticket No. 981705

Gas gravity _____ Oil gravity _____ GOR _____

Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0126					On location.
0415					Picked up and made up tool.
0600					Went in hole with tools.
0819					On bottom with tools.
0843					Opened tools.
0844	Bubble Hose				Very weak blow.
0848	"				Still very weak blow on surface only.
0851	"				"
0857	"				Closed tool.
0957	"				Opened tool with no blow at surface.
1002	"				No blow at surface.
1008	"				"
1015	"				"
1025	"				"
1030	"				"
1040	"				"
1050	"				"
1055	"				"
1057	"				Closed tool.
1257	"				Opened bypass and came out of hole.
1700					Out of hole.

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PRODUCTION TEST DATA

LITTLE'S //

TICKET NO. 981705

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	5112'	
Drill Collars	6.00"	2.25"	468'	
Handling Sub & Choke Assembly X Over	5.75"	3.50"	1.00'	5582'
Dual CIP Valve				
Dual CIP Sampler	5.00"	.75"	6.00'	5583.4'
Hydro-Spring Tester	5.00"	.75"	5.00'	5589.4'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.00"	3.00"	4.1'	5594.4'
Hydraulic Jar	5.00"	1.75"	5.00'	
VR Safety Joint	5.00"	1.00"	3.00'	
Pressure Equalizing Crossover				
Packer Assembly	7.75"	1.53"	6.00'	5610.5'
Distributor				
Packer Assembly	7.75"	1.53"	6.00'	5615.5'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint X Over	5.75"	3.50"	1.00'	
Side Wall Anchor Drill Collars	6.00"	2.25"	62'	
Drill Collars X Over	5.75"	3.50"	1.00'	
Flush Joint Anchor	5.75"	3.50"	10'	
Blanked-Off B.T. Running Case	5.75"	2.50"	4.50'	5690.5'
Total Depth				5695'

EQUIPMENT DATA

Form 9–331
Dec. 1973

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)

1. oil well ☐ gas well ☐ other Dry Hole
2. NAME OF OPERATOR
Mosbacher Production Co.
3. ADDRESS OF OPERATOR
1300 Main St., Suite 2100, Houston,Tx 77002
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FWL & 1980' FSL NE SW,Sec.24
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

5. LEASE
Utah 21253
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
Federal
9. WELL NO.
1-24
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 24 T39S-R21E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
N/A
15. ELEVATIONS (SHOW DF, KDB, AND WD)
GL 4703', DF 4715', KB 4716'

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Location Clean-up.		

(NOTE: Report results of multiple completion or zone change on Form 9–330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was plugged and abandoned on 8/18/81. On January 18, 1982, the location was cleaned up with the required location marker in place and ready for inspection.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Beverly A. Dausin TITLE Engieering Asst. DATE 1/29/82
Beverly A. Dausin

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
		(SEE ATTACHED)	

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
(SEE ATTACHED)		

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

GPO 680-378

Form 9–331
Dec. 1973

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)

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   AT SURFACE: 1980' FWL & 1980' FSL NE SW, Sec. 24
   AT TOP PROD. INTERVAL:
   AT TOTAL DEPTH: Same

5. LEASE
   Utah [illegible]
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
   N/A
7. UNIT AGREEMENT NAME
   N/A
8. FARM OR LEASE NAME
   Federal
9. WELL NO.
   1-24
10. FIELD OR WILDCAT NAME
    Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
    Sec. 24 T39S R21E
12. COUNTY OR PARISH
    San Juan
13. STATE
    Utah
14. API NO.
    N/A
15. ELEVATIONS (SHOW DF, KDB, AND WD)
    GL 4703', DF 4715', KB 4716'

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

	REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Location Clean-up.		

(NOTE: Report results of multiple completion or zone change on Form 9–330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was plugged and abandoned on 8/[illegible]/81. On [illegible] 1982, the location was cleaned up with the required location marker in place and ready for inspection.

RECEIVED
FEB 02 1983
DIVISION OF OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type ______ Set @ ______ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Beverly A. Dausin TITLE Engieering Asst. DATE 1/29/83

(This space for Federal or State office use)

APPROVED BY ______ TITLE ______ DATE ______
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side